OPERATION MANUAL MODE D'EMPLOI MANUAL DE OPERACIÓN

SHARP

AQUOS

LIQUID CRYSTAL TELEVISION
TÉLÉVISEUR ACL
TELEVISOR CON PANTALLA DE CRISTAL LÍQUIDO

OPERATION MANUAL
MODE D'EMPLOI
MANUAL DE OPERACIÓN

NOM 1245 NYCE

IMPORTANT : Please read this operation manual before starting operating the equipment.
IMPORTANT : Veuillez lire ce mode d'emploi avant de commencer à utiliser l'appareil.
IMPORTANTE : Lea este manual de operación antes de comenzar a operar el equipo.

LC-80LE857U
LC-70LE857U
LC-60LE857U
LC-80LE757U
LC-70LE757U
LC-60LE757U
LC-70LE755U
LC-60LE755U
LC-90LE657U
LC-80LE657U
LC-70LE657U
LC-60LE657U
LC-70LE655U
LC-60LE655U
LC-80LE650U
LC-70LE650U
LC-60LE650U
LC-70C7500U
LC-60C7500U
LC-80C6500U
LC-70C6500U
LC-60C6500U

ENGLISH
FRANÇAIS
ESPAÑOL

FULL HD 1080P HDTV HIGH-DEFINITION TELEVISION DOLBY DIGITAL PLUS HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE DIVX HD ENERGY STAR (Except for LC-90LE657U)

SmartCentral™ Wi Fi CERTIFIED Wi-Fi PROTECTED SETUP dlna CERTIFIED dts 2.0+Digital Out (for the LE857U, LE757U, LE755U, LE657U and LE655U models)

SHARP

Skype™ is supported by this TV set. For details, refer to the following:

- For the operation manual:
  http://www.sharpusa.com (USA)
  http://www.sharp.ca (Canada)
  http://www.sharp.com.mx (Mexico)
- For information on the communication camera:
  http://freetalk.me/product/sharp/
- For details on Skype:
  http://www.skype.com

Ce téléviseur est compatible avec Skype™. Pour les détails, reportez-vous à :

- Pour le mode d'emploi :
  http://www.sharpusa.com (États-Unis)
  http://www.sharp.ca (Canada)
  http://www.sharp.com.mx (Mexique)
- Pour des informations sur la caméra de communication :
  http://freetalk.me/product/sharp/
- Pour les détails sur Skype :
  http://www.skype.com

Skype™ es compatible con este televisor. Para conocer más detalles, consulte:

- Para el manual de operación:
  http://www.sharpusa.com (EE.UU.)
  http://www.sharp.ca (Canadá)
  http://www.sharp.com.mx (México)
- Para obtener más información sobre la cámara de comunicación:
  http://freetalk.me/product/sharp/
- Para conocer detalles de Skype:
  http://www.skype.com

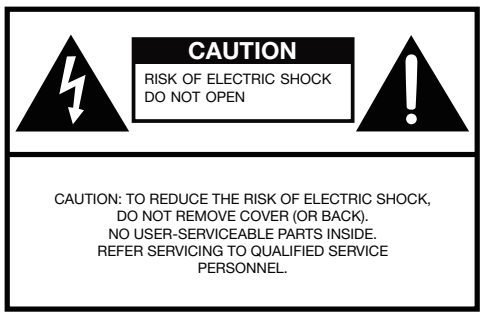
IMPORTANT INFORMATION

IMPORTANT:
To aid reporting in case of loss or theft, please record the TV's model and serial numbers in the space provided.
The numbers are located at the rear and left side of the TV.

Model No.:

Serial No.:

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lightning flash with arrow-head symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

DECLARATION OF CONFORMITY:
SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-80LE857U/LC-70LE857U/LC-60LE857U/ LC-80LE757U/LC-70LE757U/LC-60LE757U/LC-70LE755U/LC-60LE755U/LC-90LE657U/LC-80LE657U/ LC-70LE657U/LC-60LE657U/LC-70LE655U/LC-60LE655U/LC-80LE650U/LC-70LE650U/LC-60LE650U/ LC-70C7500U/LC-60C7500U/LC-80C6500U/LC-70C6500U/LC-60C6500U
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
RESPONSIBLE PARTY:
SHARP ELECTRONICS CORPORATION
Sharp Plaza, Mahwah, New Jersey 07495-1163
TEL: 1-800-BE-SHARP
For Business Customers: URL http://www.sharpusa.com

INFORMATION:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—— Reorient or relocate the receiving antenna.
—— Increase the separation between the equipment and receiver.
—— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—— Consult the dealer or an experienced radio/TV technician for help.

FCC Compliance Statement
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Wireless Radio
For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible. This device is going to be operated in 5.15–5.25GHz frequency range, it is restricted in indoor environment only.
Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Industry Canada Statement
This Class B digital apparatus complies with CAN ICES-003(B)/NMB-3(B)

Wireless Radio
For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible.
The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure.
Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.
Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
IC Radiation Exposure Statement: This device complies with IC RSS-210 rules; Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept interference recieved, including interference that may cause undesired operation.

This product contains a CR Coin Lithium Battery which contains Perchlorate Material – special handling may apply, California residents,
See www.dtsc.ca.gov/hazardouswaste/perchlorate/ U.S.A. ONLY

"Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

This product qualifies for ENERGY STAR when "Home" is selected for "TV Location".
Setting "TV Location" to "Home" allows the TV to achieve an energy-saving status for household use.
(Except for LC-90LE657U)

ENGLISH

LC-80LE857U_757U_657U_E.indd 1 2013/02/23 16:33:45

DEAR SHARP CUSTOMER

Thank you for your purchase of the Sharp Liquid Crystal Television. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Instructions carefully before using this product.

IMPORTANT SAFETY INSTRUCTIONS

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your Liquid Crystal Television, please read the following precautions carefully before using the product.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Safety Information

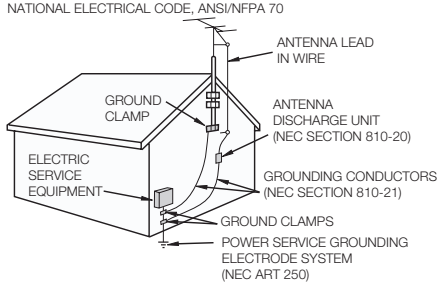
15) Power Sources—This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
16) Overloading—Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
17) Object and Liquid Entry—Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
18) Damage Requiring Service—Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a) When the AC cord or plug is damaged,
    b) If liquid has been spilled, or objects have fallen into the product,
    c) If the product has been exposed to rain or water,
    d) If the product does not operate normally by following the operating instructions.
    Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,

IMPORTANT SAFETY INSTRUCTIONS

    e) If the product has been dropped or damaged in any way, and
    f) When the product exhibits a distinct change in performance - this indicates a need for service.
19) Replacement Parts—When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20) Safety Check—Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
21) Wall or ceiling mounting—When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.

- Outdoor Antenna Grounding — If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
  Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250)

NEC — NATIONAL ELECTRICAL CODE

- Water and Moisture — Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- Stand — Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.
- Selecting the location — Select a place with no direct sunlight and good ventilation.
- Ventilation — The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- The front panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the panel breaks.
- Heat — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
- The Liquid Crystal panel is a very high technology product with 2,073,600 pixels, giving you fine picture details.Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green, red or yellow (LE857U, LE757U, LE755U and C7500U models); blue, green or red (LE657U, LE655U, LE650U and C6500U models). Please note that this does not affect the performance of your product.
- Lightning — For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.
- Power Lines — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

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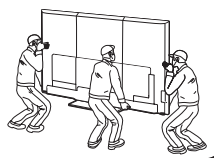
IMPORTANT SAFETY INSTRUCTIONS

- To prevent fire, never place any type of candle or flames on the top or near the TV set.
- To prevent fire or shock hazard, do not place the AC cord under the TV set or other heavy items.
- Do not display a still picture for a long time, as this could cause an afterimage to remain.
- To prevent fire or shock hazard, do not expose this product to dripping or splashing.No objects filled with liquids, such as vases, should be placed on the product.
- Do not insert foreign objects into the product. Inserting objects in the air vents or other openings may result in fire or electric shock. Exercise special caution when using the product around children.

Precautions when transporting the TV

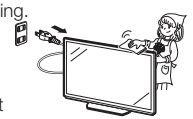
- When transporting the TV, never carry it by holding or otherwise putting pressure onto the display. Be sure to always carry the TV by two people (90/80 inch models: three people) holding it with two hands.



Caring for the cabinet

- Use a soft cloth (cotton, flannel, etc.) and gently wipe the surface of the cabinet.
- Using a chemical cloth (wet/dry sheet type cloth, etc.) may deform the components of the main unit cabinet or cause cracking.
- Wiping with a hard cloth or using strong force may scratch the surface of the cabinet.
- If the cabinet is very dirty, wipe with a soft cloth (cotton, flannel, etc.) soaked in neutral detergent diluted with water and thoroughly wrung out, and then wipe with a soft dry cloth.
- Avoid using benzene, thinner, and other solvents, as these may deform the cabinet and cause the paint to peel off.
- Do not apply insecticides or other volatile liquids.
  Also, do not allow the cabinet to remain in contact with rubber or vinyl products for a long period of time. Plasticizers inside the plastic may cause the cabinet to deform and cause the paint to peel off.

Caring for the front panel



- Turn off the main power and unplug the AC cord from the wall outlet before handling.
- Gently wipe the surface of the front panel with a soft cloth (cotton, flannel, etc.). To protect the front panel, do not use a dirty cloth, liquid cleaners, or a chemical cloth (wet/dry sheet type cloth, etc.). This may damage the surface of the front panel.
- Wiping with a hard cloth or using strong force may scratch the surface of the front panel.
- Use a soft damp cloth to gently wipe the front panel when it is really dirty.(It may scratch the surface of the front panel when wiped strongly.)
- If the front panel is dusty, use an anti-static brush, which is commercially available, to clean it.
- To avoid scratching the frame or screen, please use a soft, lint free cloth for cleaning. Approved cleaning cloths are available directly from Sharp in single (00Z-LCD-CLOTH) or triple (00Z-LCD-CLOTH-3) packs. Call 1-800-BE-SHARP for ordering, or VISIT http://www.sharpusa.com/SharpDirect.

CHILD SAFETY:

PROPER TELEVISION PLACEMENT MATTERS

THE CONSUMER ELECTRONICS INDUSTRY CARES

- Manufacturers, retailers and the rest of the consumer electronics industry are committed to making home entertainment safe and enjoyable.
- As you enjoy your television, please note that all televisions – new and old- must be supported on proper stands or installed according to the manufacturer's recommendations. Televisions that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, carts, etc., may fall over, resulting in injury.

TUNE IN TO SAFETY

- **ALWAYS** follow the manufacturer's recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **NEVER** allow children to climb on or play on the television or the furniture on which the television is placed.
- **NEVER** place the television on furniture that can easily be used as steps, such as a chest of drawers.
- **ALWAYS** install the television where it cannot be pushed, pulled over or knocked down.
- **ALWAYS** route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.

WALL OR CEILING MOUNT YOUR TELEVISION

- **ALWAYS** contact your retailer about professional installation if you have any doubts about your ability to safely mount your television.
- **ALWAYS** use a mount that has been recommended by the television manufacturer and has a safety certification by an independent laboratory (such as UL, CSA, ETL).
- **ALWAYS** follow all instructions supplied by the television and mount manufacturers.
- **ALWAYS** make sure that the wall or ceiling where you are mounting the television is appropriate.
  Some mounts are not designed to be mounted to walls and ceilings with steel studs or cinder block construction. If you are unsure, contact a professional installer.
- Televisions can be heavy. A minimum of two people is required for a wall or ceiling mount installation.

MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME

- Many new television buyers move their older CRT televisions into a secondary room after the purchase of a flat-panel television. Special care should be made in the placement of older CRT televisions.
- **ALWAYS** place your older CRT television on furniture that is sturdy and appropriate for its size and weight.
- **NEVER** place your older CRT television on a dresser where children may be tempted to use the drawers to climb.
- **ALWAYS** make sure your older CRT television does not hang over the edge of your furniture.

CE.org/safety

CEA Consumer Electronics Association

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IMPORTANT SAFETY INSTRUCTIONS

3D Glasses (for the LE857U, LE757U, LE755U and LE657U models)
Prevention of accidental ingestion
- Keep the accessory out of the reach of small children. Small children can accidentally swallow these parts.
  – If a child accidentally swallows any of these parts, seek immediate medical attention.

Do not disassemble
- Do not disassemble or modify the 3D Glasses except when recycling the batteries. Do not modify the 3D Glasses.

Handling the 3D Glasses
- Do not drop, exert pressure on, or step on the 3D Glasses. Doing so may damage the glass section, which may result in the risk of injury.
- Be careful not to trap your finger in the hinge section of the 3D Glasses. Doing so may result in injury.
  – Pay special attention when children are using this product.

Caution for lithium battery
- Batteries must not be exposed to excessive heat such as direct sunlight or fire.
- Replace only with the same or equivalent type of battery. The battery may explode if improperly replaced.
- Take care not to reverse the battery poles (+ and –) when loading the battery. Follow the correct procedure when loading the battery. Loading the battery incorrectly may damage the battery or cause it to leak battery fluid, which could result in a fire, injury or damage.

Using the 3D Glasses
- Use of the 3D Glasses should be limited to a maximum of 3 hours, and in any case no more than one movie.
- Use only the 3D Glasses recommended for this TV.
- Use the 3D Glasses only for the specified purpose.
- Do not move around while wearing the 3D Glasses. The surrounding area may appear dark, which may result in falling or other accidents that may cause injury.

Caring for the 3D Glasses
- Use only the cloth provided with the 3D Glasses to clean the lenses. Remove dust and soil from the cloth. Any dust or other soiling on the cloth may result in scratches. Do not use solvents such as benzene or thinners as doing so may cause the coating to peel off.
- When cleaning the 3D Glasses, take care not to allow water or other fluids to come into contact with the glasses.
- Always store the 3D Glasses in the case provided when not in use.
- When storing the 3D Glasses, avoid very humid or hot locations.

Viewing 3D images
- If you experience dizziness, nausea, or other discomfort while viewing 3D images, discontinue use and rest your eyes.
- Do not use the 3D Glasses if they are cracked or broken.

⚠WARNING

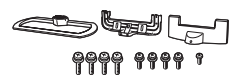
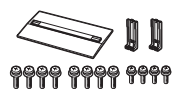
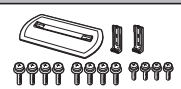
DO NOT INGEST BATTERY, CHEMICAL BURN HAZARD

"This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention."

Accessories

Supplied Accessories

Make sure the following accessories are provided with the product.

Remote control unit (x1)	"AAA" size battery (x2)	AC cord (x1) (for the 90/80 inch models)	Stand unit (x1) (for LC-80LE857U)
Page 10	Page 10	Page 9	Page 8
Stand unit (x1) (for LC-70LE857U/LC-60LE857U)	Stand unit (x1) (for LC-80LE757U)		Stand unit (x1) (for LC-70LE757U/LC-60LE757U/ LC-70LE755U/LC-60LE755U/ LC-70C7500U/LC-60C7500U)
 Page 6	Page 8		Page 6
Stand unit (x1) (for LC-90LE657U)	Stand unit (x1) (for LC-80LE657U/ LC-70LE657U/LC-60LE657U/ LC-70LE655U/LC-60LE655U/ LC-80LE650U/LC-70LE650U/ LC-60LE650U/LC-80C6500U/ LC-70C6500U/LC-60C6500U)		3D Glasses (x2) (for the LE857U, LE757U, LE755U and LE657U models)
 Page 9	 Page 7 (for the 70/60 inch models) Page 9 (for the 80 inch models)		For details, refer to the operation manual.

■ Operation manual (this publication) ■ Connection guide
■ Operation manual for the 3D Glasses (for the LE857U, LE757U, LE755U and LE657U models)

NOTE

- Always use the AC cord supplied with the TV.
- The illustrations above are for explanation purposes and may vary slightly from the actual accessories.

Optional Accessories

The listed optional accessories are available for the Liquid Crystal Television. Please purchase them at your nearest shop.
- Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

Part name	Model number
Wall mount bracket	AN-52AG4 (for LC-70LE857U/LC-60LE857U/ LC-70LE757U/LC-60LE757U/ LC-70LE755U/LC-60LE755U/ LC-70LE657U/LC-60LE657U/ LC-70LE655U/LC-60LE655U/ LC-70LE650U/LC-60LE650U/ LC-70C7500U/LC-60C7500U/ LC-70C6500U/LC-60C6500U)
3D Glasses	AN-3DG40 (for the LE857U, LE757U, LE755U, LE657U and LE655U models)

LC-80LE857U_757U_657U_E.indd 4 2013/02/23 17:11:07

Contents

IMPORTANT INFORMATION 1
DEAR SHARP CUSTOMER 2
IMPORTANT SAFETY INSTRUCTIONS 2-4

Accessories 4
- Supplied Accessories 4
- Optional Accessories 4

QUICK REFERENCE
- Attaching the Stand 6-7
- Attaching the Stand (for the 90/80 Inch Models) 7-9
- QUICK INSTALLATION TIPS 9
- Experiencing HD Images 9
- Installing Batteries in the Remote Control Unit 10
- Using the Remote Control Unit 10

Preparation
- Antennas 10

Part Names
- TV (Front) 11
- TV (Side) 11
- TV (Rear) 11
- Remote Control Unit 12

Introduction to Connections
- Types of Connection 13
- Displaying an External Equipment Image ... 13

Connecting to External Equipment
- Connecting a Blu-ray Disc/DVD Player or HD Cable/Satellite Set-top Box 14
- Connecting a VCR, Game Console, Camcorder or Cable/Satellite Set-top Box ... 14
- Connecting a Surround System/ Audio System 15
- Connecting a PC 15

Watching TV
- Turning On/Off the Power 16
- Initial Installation 16-17

Direct Button Operation
- Changing Channels 18
- Changing Volume 18
- MUTE 18
- FREEZE 18
- INPUT 18
- FLASHBACK 18
- SmartCentral 18
- NETFLIX 19
- AUDIO 19
- Sleep Timer 19
- AV MODE 19
- Closed Captions and Digital Closed Captions 20
- VIEW MODE 20-21

On-Screen Display Menu
- On-Screen Display Menu Operation 22
- Menu Operation Buttons 22
- Menu Items 23
- Picture Settings 24-25
- Audio Settings 25
- Power Control 26
- System Options 26-28
- Initial Setup 28-30
- Information 30-32

Enjoying 3D Image Viewing (for the LE857U, LE757U, LE755U, LE657U and LE655U models)
- Display Methods for 3D and 2D Images 33
- Viewing 3D Images 33-34
- Configuring the TV Settings to Enhance 3D Image Viewing 34-35

Enjoying Photo/Music/Video Playback
- Connecting a USB Memory Device/ USB Hard Drive 35
- Connecting a Home Network (DLNA) Server .. 36
- Selecting the Folders to Play Back 36
- Playing Back Files on a USB Memory Device/ Home Network (DLNA) Server 37-39
- Playing Back Files from a Portable Device or PC 39

Other Viewing Options
- Presetting Remote Control Function 40
- Operating the Connected Equipment 41

Using AQUOS LINK
- Controlling HDMI Equipment Using AQUOS LINK 41-42
- Link Operation Menu 42-43
- Using a Smartphone with the TV 43

Using a PC
- Adjusting the PC Image 44
- Setting Audio Input 44
- Control of the TV 44-45
- PC Compatibility Chart 45

Using the Internet
- Connecting to the Internet 46
- Internet Setup 46-47
- AQUOS Advantage Live 47
- Entering Text (Software Keyboard) 47
- Using the Browser 48-49
- Using Keyboard and Mouse 49
- Using Applications via the Internet 49
  - DISCLAIMERS 50

Appendix
- Removing the Stand 51
- Setting the TV on the Wall 52-53
- Troubleshooting 54
- Troubleshooting - 3D Images (for the LE857U, LE757U, LE755U, LE657U and LE655U models) 54
- Troubleshooting - Error Message 55
- Information on the Software License for This Product 55

Specifications
- TV 56-57
- Wireless LAN 58
- Bluetooth 58

Trademarks 59
Calling for Service 60
LIMITED WARRANTY 60

Dimensional Drawings
- The dimensional drawings for the LCD TV set are shown on the inside back cover.

- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The examples used throughout this manual are based on the LC-60LE650U model.

LC-80LE857U_757U_657U_E.indd 5 2013/02/23 16:34:14

QUICK REFERENCE

Attaching the Stand

- Before attaching (or detaching) the stand, unplug the AC cord.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

CAUTION

- **Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.**

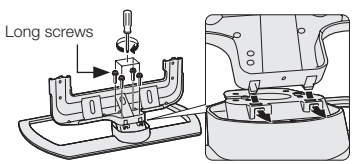
NOTE

- Refer to pages 7 and 9 for the instructions on the installation of the 80 inch models.

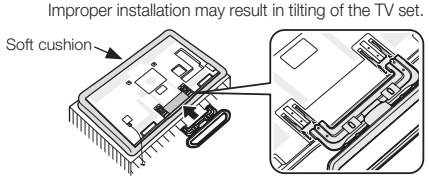
■ LC-70LE857U/LC-60LE857U

1 Confirm that there are 9 screws (4 long screws, 4 middle screws and 1 short screw) supplied with the stand unit.

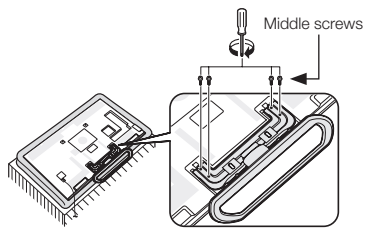
2 Attach the supporting post for the stand unit onto the base as shown below.
- The supporting post attaches to the base at an offcentered location on the base. Be sure to attach the supporting post in the direction indicated below and attach the stand to the TV with the wider side of the base facing forward.



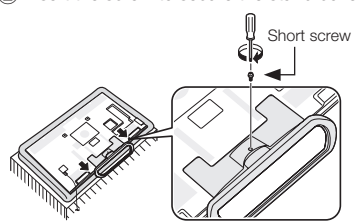
3 Insert the stand into the openings on the rear of the TV.
- Make sure that the stand is firmly inserted into the TV. Improper installation may result in tilting of the TV set.



4 Insert and tighten the 4 screws into the 4 holes on the rear of the stand unit.



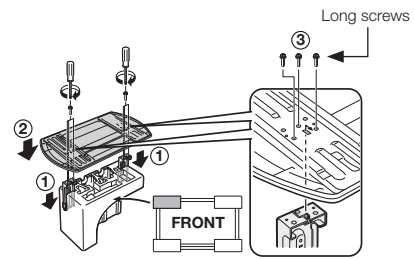
5 ① Insert the stand cover.
② Insert the screw to secure the stand cover.



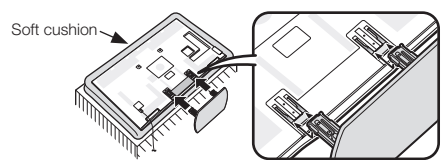
■ LC-70LE757U/LC-60LE757U/LC-70LE755U/ LC-60LE755U/LC-70C7500U/LC-60C7500U

1 Confirm that there are 12 screws (6 long screws, 4 middle screws and 2 short screws) supplied with the stand unit.

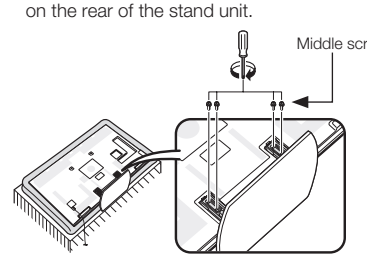
2 ① Set the post for the stand unit onto the polystyrene foam.
② Attach the base to the post.
③ Insert and tighten the 6 screws into the 6 holes on the bottom of the base.
- Hold the stand unit securely with one hand, and then tighten the screws.



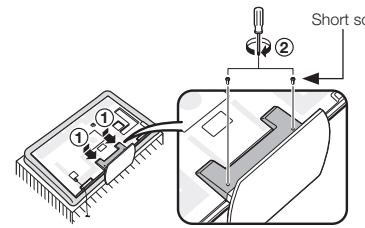
3 Insert the stand into the openings on the rear of the TV.
- Make sure that the stand is firmly inserted into the TV. Improper installation may result in tilting of the TV set.



4 Insert and tighten the 4 screws into the 4 holes on the rear of the stand unit.



5 ① Insert the stand cover.
② Insert the 2 screws to secure the stand cover.



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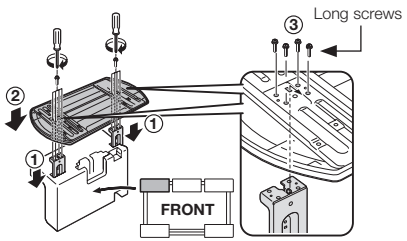
■ **LC-70LE657U/LC-60LE657U/LC-70LE655U/ LC-60LE655U/LC-70LE650U/LC-60LE650U/ LC-70C6500U/LC-60C6500U**

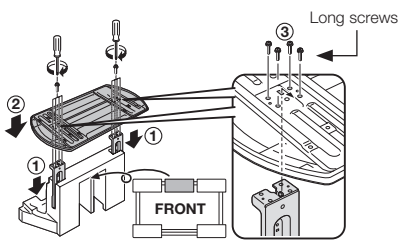
1 Confirm that there are 12 screws (8 long screws and 4 short screws) supplied with the stand unit.

2 ① Set the post for the stand unit onto the polystyrene foam.
② Attach the base to the post.
③ Insert and tighten the 8 screws into the 8 holes on the bottom of the base.
• Hold the stand unit securely with one hand, and then tighten the screws.

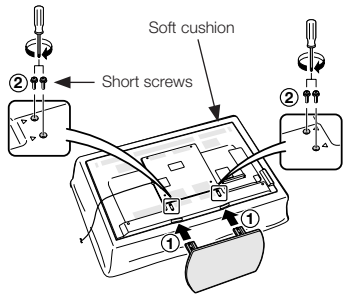
■ **LC-70LE657U/LC-70LE655U/LC-70LE650U/ LC-70C6500U**



■ **LC-60LE657U/LC-60LE655U/LC-60LE650U/ LC-60C6500U**

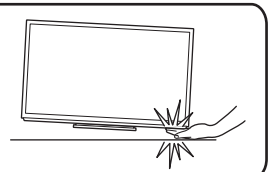


3 ① Insert the stand into the openings on the bottom of the TV.
• Make sure that the stand is firmly inserted into the TV. Improper installation may result in tilting of the TV set.
② Insert and tighten the 4 screws into the 4 holes on the rear of the TV.



• In the installation procedure, be careful not to catch your fingers between the TV set and the floor.

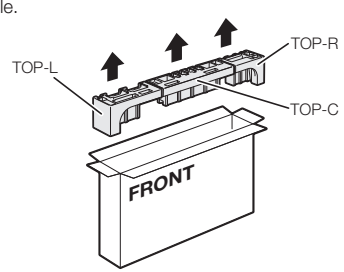
• **Do not remove the stand from the TV unless using an optional wall mount bracket to mount it.**
• **After attaching the stand to the TV, do not hold the stand when you put up, set up, move or lay down the TV.**



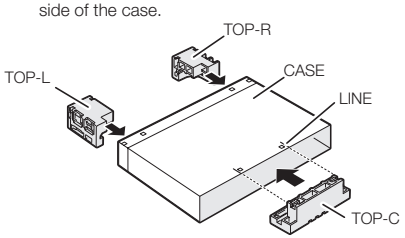
Attaching the Stand (for the 90/80 Inch Models)

Building the Work Table

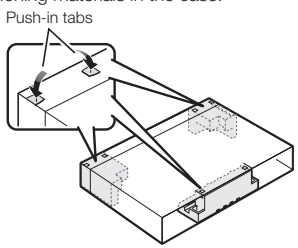
Before attaching the stand to the TV, build a work table on which to rest the TV.
• To build the table, use the cushioning materials used in the packaging.
• Of the cushioning materials used, TOP-C is also used during stand unit assembly. Be sure to assemble the stand unit before building the work table.



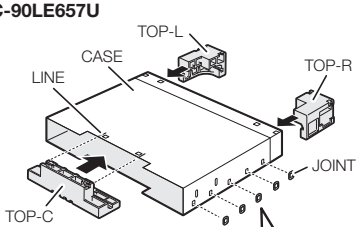
1 Insert each of the cushioning materials in the respective directions shown in the figure.
• Insert TOP-L and TOP-R into the left and right sides of the case respectively.
• Insert TOP-C to fit between the lines on the other side of the case.



2 The case is equipped with push-in tabs to hold the cushioning materials in place. Push in the tabs (2 for each location) to secure the cushioning materials in the case.

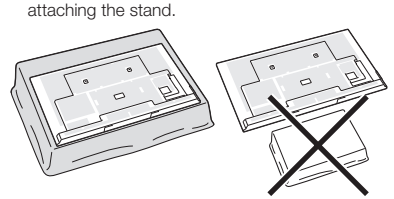


■ **LC-90LE657U**



Attach the joints and close the case.
① Insert a joint into the hole on the side of the case.
② Pressing the tab, fix the joint into place.

3 After you have built the work table, spread a blanket or similar soft cloth over the table and then lay the TV display down on the covered table before attaching the stand to the TV.
• Do not use a small table for this.
• Refer to the operation manual for information on attaching the stand.



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- Before attaching (or detaching) the stand, unplug the AC cord.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

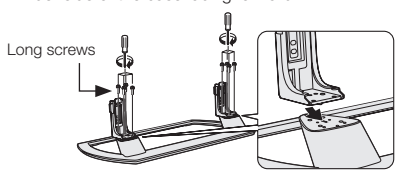
CAUTION

- **Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.**

■ LC-80LE857U

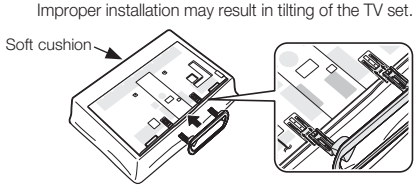
1 Confirm that there are 14 screws (8 long screws, 4 middle screws and 2 short screws) supplied with the stand unit.

2 Attach the supporting post for the stand unit onto the base as shown below.
- The supporting post attaches to the base at an offcentered location on the base. Be sure to attach the supporting post in the direction indicated below and attach the stand to the TV with the wider side of the base facing forward.

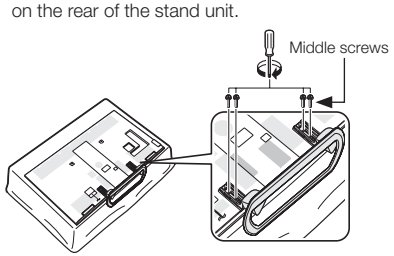


3 Build the work table. (See page 7.)

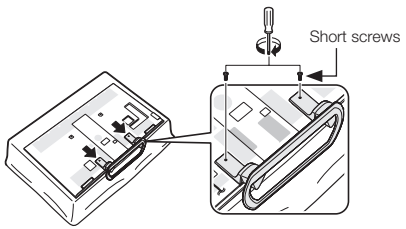
4 Insert the stand into the openings on the rear of the TV.
- Make sure that the stand is firmly inserted into the TV. Improper installation may result in tilting of the TV set.



5 Insert and tighten the 4 screws into the 4 holes on the rear of the stand unit.



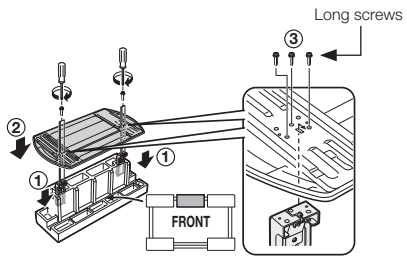
6 ① Insert the stand cover.
② Insert the screw to secure the stand cover.



■ LC-80LE757U

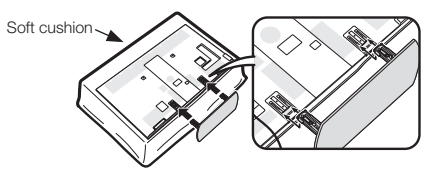
1 Confirm that there are 12 screws (6 long screws, 4 middle screws and 2 short screws) supplied with the stand unit.

2 ① Set the post for the stand unit onto the polystyrene foam.
② Attach the base to the post.
③ Insert and tighten the 6 screws into the 6 holes on the bottom of the base.
- Hold the stand unit securely with one hand, and then tighten the screws.

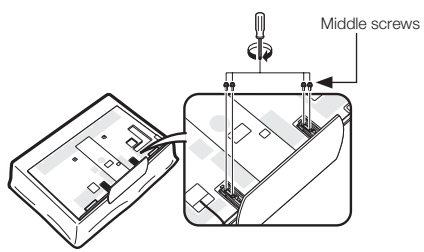


3 Build the work table. (See page 7.)

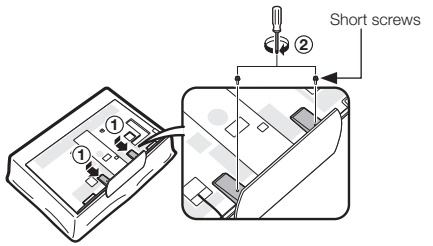
4 Insert the stand into the openings on the rear of the TV.
- Make sure that the stand is firmly inserted into the TV. Improper installation may result in tilting of the TV set.



5 Insert and tighten the 4 screws into the 4 holes on the rear of the stand unit.



6 ① Insert the stand cover.
② Insert the 2 screws to secure the stand cover.



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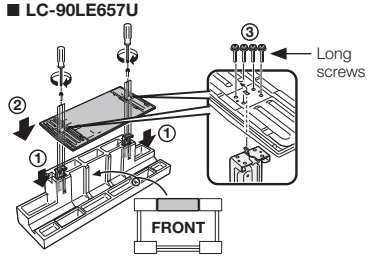
■ **LC-90LE657U/LC-80LE657U/LC-80LE650U/ LC-80C6500U**

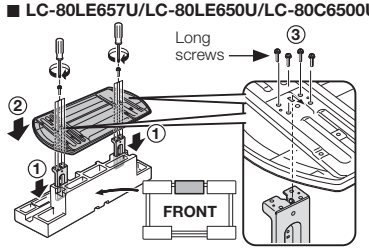
1 Confirm that there are 12 screws (8 long screws and 4 short screws) supplied with the stand unit.

2 ① Set the post for the stand unit onto the polystyrene foam.
② Attach the base to the post.
③ Insert and tighten the 8 screws into the 8 holes on the bottom of the base.
• Hold the stand unit securely with one hand, and then tighten the screws.

■ **LC-90LE657U**

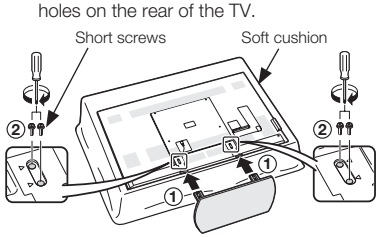


■ **LC-80LE657U/LC-80LE650U/LC-80C6500U**



3 Build the work table. (See page 7.)

4 ① Insert the stand into the openings on the bottom of the TV.
• Make sure that the stand is firmly inserted into the TV. Improper installation may result in tilting of the TV set.
② Insert and tighten the 4 screws into the 4 holes on the rear of the TV.

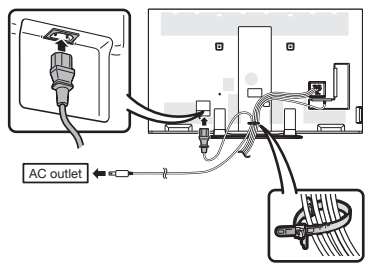


QUICK INSTALLATION TIPS

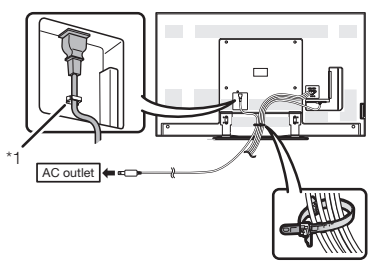
1 Attach your antenna to the back of the television. (See page 10.)

2 Connect the AC plug for the television into the AC outlet.
• Place the TV close to the AC outlet, and keep the power plug within reach.

■ **LC-80LE857U/LC-80LE757U**



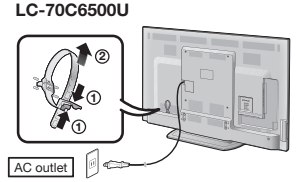
■ **LC-90LE657U/LC-80LE657U/LC-80LE650U/ LC-80C6500U**



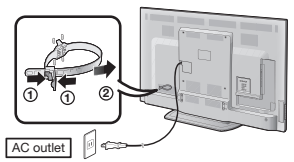
NOTE

• *1: Be sure to use the clamp to prevent the AC cord from being unplugged. (Except for LC-90LE657U)

■ **LC-70LE657U/LC-70LE655U/LC-70LE650U/ LC-70C6500U**

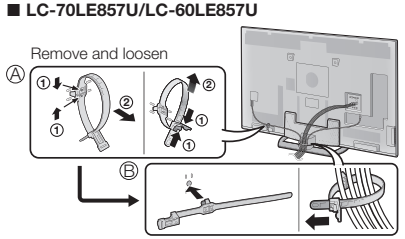


■ **LC-60LE657U/LC-60LE655U/LC-60LE650U/ LC-60C6500U**

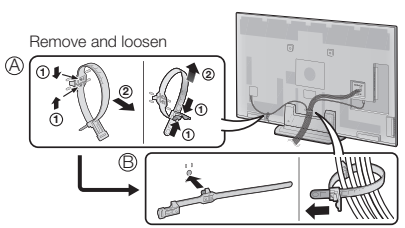


Bundle the cords properly with the cable tie.
• When bundling the cords, use the AC cord holder mounted on the TV. Relocate from Ⓐ to Ⓑ.

■ **LC-70LE857U/LC-60LE857U**



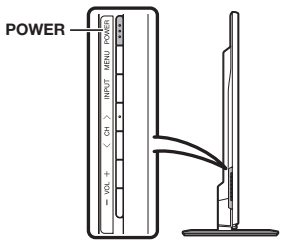
■ **LC-70LE757U/LC-60LE757U/ LC-70LE755U/LC-60LE755U/ LC-70C7500U/LC-60C7500U**



NOTE

• **TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.**

3 When turning on the TV for the first time, press **POWER** on the television.



4 Insert the batteries into the remote control unit. (See page 10.)

NOTE

• Speakers cannot be detached from the TV.
• The TV angle cannot be adjusted.

Experiencing HD Images

An HDTV without an HD source is just an ordinary TV. To enjoy HD images on the TV, you should get HD programming from the following:

• Over-the-air broadcasting via HD quality antenna
• HD cable/satellite subscription
• HD compatible external equipment

NOTE

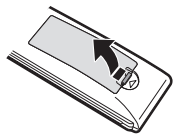
• For information on updating to HD programming, ask your cable/satellite service provider.

LC-80LE857U_757U_657U_E.indd 9 2013/02/26 19:46:49

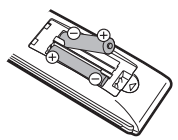
Installing Batteries in the Remote Control Unit

If the remote control fails to operate TV functions, replace the batteries in the remote control unit.

1 Open the battery cover.

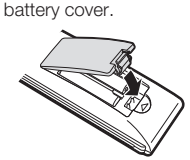


2 Insert two "AAA" size batteries (supplied with the product).



- Place the batteries with their terminals corresponding to the (+) and (−) indications in the battery compartment.

3 Close the battery cover.



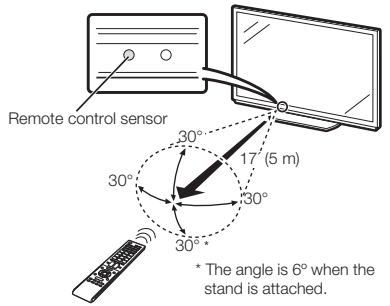
CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are worn out. Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove batteries from it.

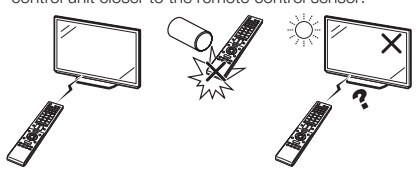
Using the Remote Control Unit

Use the remote control unit by pointing it towards the remote control sensor on the TV. Objects between the remote control unit and the remote control sensor may prevent proper operation.



■ Cautions regarding the remote control unit

- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place it in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the remote control unit.
- The remote control unit may not work properly if the remote control sensor on the TV is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or the TV, or operate the remote control unit closer to the remote control sensor.



IMPORTANT:

IF THE UNIT DOES NOT POWER ON - UNPLUG THE TELEVISION FROM THE OUTLET AND REPEAT THE INSTALLATION STEPS.
IF YOU STILL ENCOUNTER NO POWER, PLEASE CONTACT US AT 1-800-BE-SHARP.

Preparation

Antennas

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable. If your outdoor antenna uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the TV set. For connecting the antenna cable to the TV, use commercially available cables.

Connecting Antenna Cable

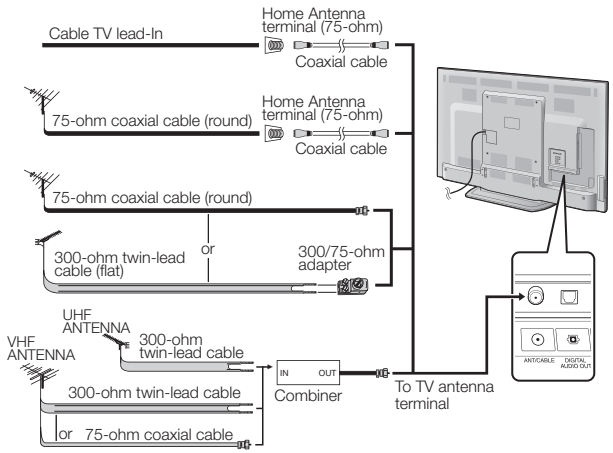
- **Connect the antenna cable to the TV using one of the methods in the illustration as shown (①, ②, ③ or ④).**

① Cable without a CATV converter

② VHF/UHF antenna

③ Combination VHF/ UHF antenna

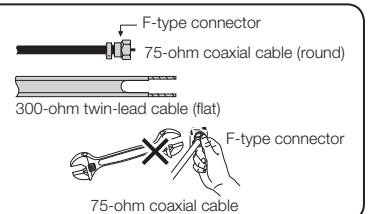
④ Separate VHF/UHF antenna



1. A 75-ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools.
2. A 300-ohm system is a flat "twin-lead" cable that can be attached to a 75-ohm terminal through a 300/75-ohm adapter.

NOTICE **F-type connector should be finger-tightened only.**

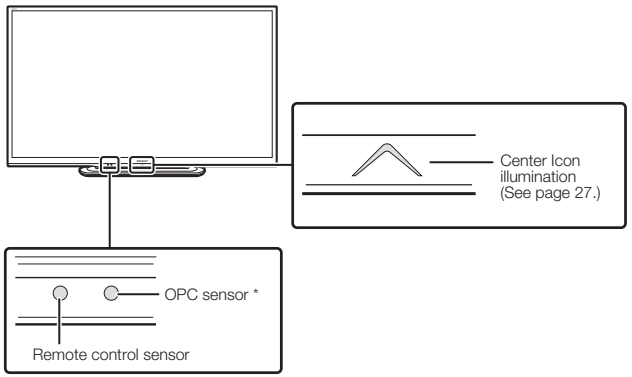
When connecting the RF cable to the TV set, do not tighten F-type connector with tools.
If tools are used, it may cause damage to your TV set. (The breaking of internal circuit, etc.)



LC-80LE857U_757U_657U_E.indd 10 2013/02/21 13:35:58

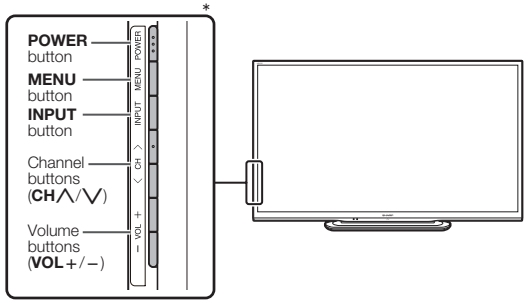
Part Names

TV (Front)



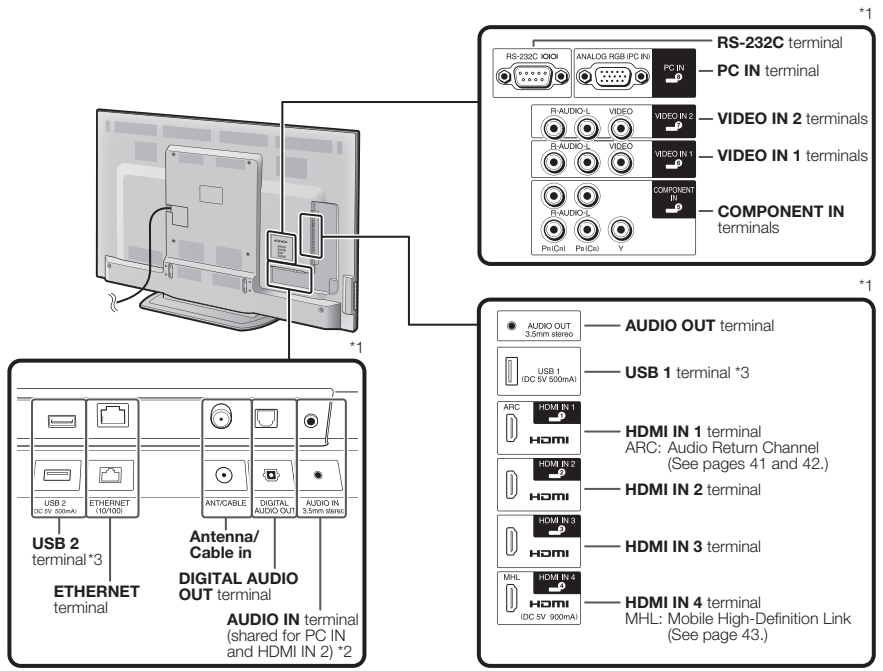
* OPC: Optical Picture Control (See page 24.)

TV (Side)



* See pages 13, 16, 22 and 27 for button operations.

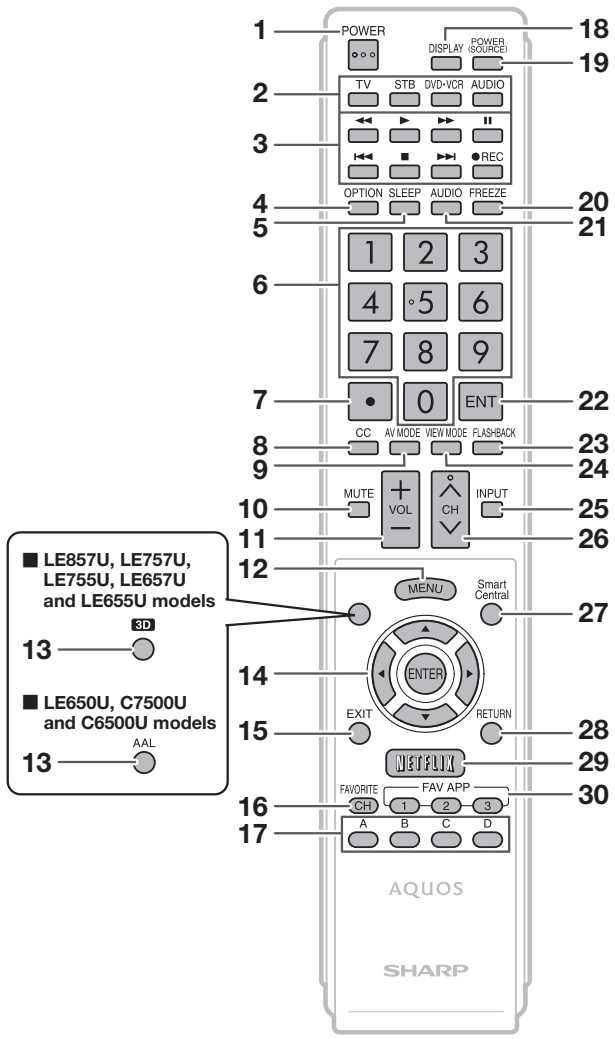
TV (Rear)


*1
RS-232C terminal
PC IN terminal
VIDEO IN 2 terminals
VIDEO IN 1 terminals
COMPONENT IN terminals
*1
AUDIO OUT terminal
USB 1 terminal *3
HDMI IN 1 terminal
ARC: Audio Return Channel (See pages 41 and 42.)
HDMI IN 2 terminal
HDMI IN 3 terminal
HDMI IN 4 terminal
MHL: Mobile High-Definition Link (See page 43.)
*1
USB 2 terminal *3
ETHERNET terminal
Antenna/ Cable in
DIGITAL AUDIO OUT terminal
AUDIO IN terminal (shared for PC IN and HDMI IN 2) *2

*1 See pages 13 to 15 and 41 for external equipment connection.
*2 See page 44 for details on the Audio Select function.
*3 Skype™ is available for the USB terminal. For details, refer to the following:
- For the operation manual:
  http://www.sharpusa.com (USA)
  http://www.sharp.ca (Canada)
  http://www.sharp.com.mx (Mexico)
- For information on the communication camera:
  http://freetalk.me/product/sharp/
- For details on Skype:
  http://www.skype.com

LC-80LE857U_757U_657U_E.indd 11 2013/02/21 13:35:58

Remote Control Unit



NOTE

• When using the remote control unit, point it at the TV.

1 POWER: Switch the TV power on or enter standby. (See page 16.)

2 TV, STB, DVD•VCR, AUDIO: Switches the remote control for TV, STB, BD, DVD, VCR and AUDIO operation. (See pages 40 to 41 for details.)

* To enter the code registration mode, you need to press an appropriate button (**STB**, **DVD•VCR** or **AUDIO**) and **DISPLAY** at the same time.

3 External equipment operational buttons: Operate the external equipment.

4 OPTION: Display the Link Operation Menu screen. This button will function only when AQUOS LINK is used. (See pages 41 to 43 for details.)

5 SLEEP: Set the sleep timer. (See page 19.)

6 0–9: Set the channel. (See page 18.)

7 • (DOT): (See pages 18 and 41.)

8 CC: Display captions from a closed-caption source. (See page 20.)

9 AV MODE: Select an audio or video setting. (See page 19.)

10 MUTE: Mute the sound. (See page 18.)

11 VOL +/−: Set the volume. (See page 18.)

12 MENU: Display the menu screen. (See page 22.)

13 LE857U, LE757U, LE755U, LE657U and LE655U models
3D: Select between 3D and 2D image viewing. (See pages 33 to 34 for details.)

LE650U, C7500U and C6500U models
AAL: Display the AQUOS ADVANTAGE LIVE screen. (See page 47.)

14 ▲/▼/◀/▶, ENTER: Select a desired item on the screen.

15 EXIT: Turn off the menu screen.

16 FAVORITE CH: Set the favorite channels. (See page 28.)

17 A, B, C, D: Select 4 preset favorite channels in 4 different categories. (See page 28.)

While watching, you can toggle the selected channels by pressing **A**, **B**, **C** and **D**.

18 DISPLAY: Display the channel information.

19 POWER (SOURCE): Turns the power of the external equipment on and off.

20 FREEZE: Set the still image. Press again to return to normal screen. (See page 18.)

21 AUDIO: Selects the MTS/SAP or the audio mode during multichannel audio broadcasts. (See page 19.)

22 ENT: Jumps to a channel after selecting with the **0**–**9** buttons.

23 FLASHBACK: Return to the previous channel or external input mode. (See page 18.)

24 VIEW MODE: Select the screen size. (See pages 20 and 21.)

25 INPUT: Select a TV input source. (TV, HDMI1, HDMI2, HDMI3, HDMI4, COMPONENT, VIDEO1, VIDEO2, PC IN, Home Network (DLNA), USB) (See pages 13 and 18.)

26 CH∧/∨: Select the channel. (See page 18.)

27 SmartCentral: Display the application window. (See page 18.)

28 RETURN: Return to the previous menu screen.

29 NETFLIX: Display the Netflix screen. (See page 19.)

30 FAV APP 1, 2, 3: You can assign your favorite applications to these buttons. (See pages 47 to 49.)

LC-80LE857U_757U_657U_E.indd 12 2013/02/21 13:35:59

Introduction to Connections

Types of Connection

For connecting the TV to external equipment, use commercially available cables.

- The illustrations of the terminals are for explanation purposes and may vary slightly from the actual products.

■ Connecting to video equipment or PC

Image quality differs depending on the terminal used. To enjoy clearer images, check the output terminals of your external equipment and use its appropriate terminals for higher quality images.

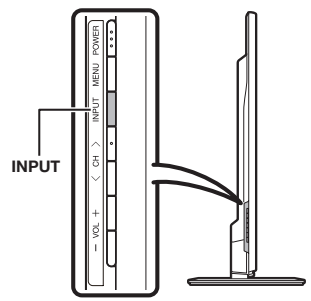
Image Quality	Terminal on the TV	Cable	Terminal on external equipment	
HD Quality ↑	ARC HDMI IN 1 HDMI	HDMI-certified cable	HDMI	➡ Pages 14, 15
	AUDIO IN 3.5mm stereo HDMI IN 2 HDMI	Ø 3.5 mm stereo minijack cable DVI-HDMI conversion cable	AUDIO DVI OUT	➡ Pages 14, 15
	COMPONENT IN R-AUDIO-L Pr/Cr Pb/Cb Y	Component video cable Audio cable	Y PB PR COMPONENT R L AUDIO	➡ Page 14
Standard Quality ↓	R-AUDIO-L VIDEO VIDEO IN 1	AV cable	R L AUDIO VIDEO	➡ Page 14

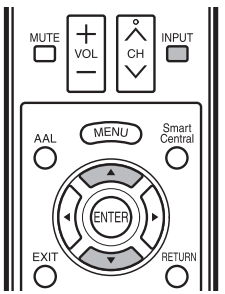
■ Connecting to audio equipment

Terminal on the TV	Cable	Terminal on external equipment	
DIGITAL AUDIO OUT	Optical fiber cable	OPTICAL DIGITAL AUDIO INPUT	➡ Page 15
AUDIO OUT 3.5mm stereo	Ø3.5 mm stereo minijack to RCA audio cable	R L ANALOG AUDIO IN	➡ Page 15

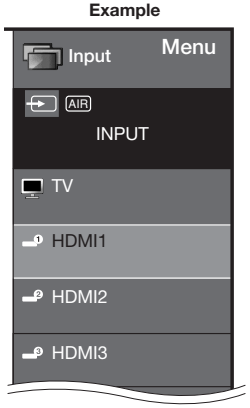
Displaying an External Equipment Image

To view external source images, select the input source by pressing **INPUT** on the remote control unit or on the TV.





Example



1 Press **INPUT**.
- The INPUT list screen displays.

2 Press ▲/▼ to select the input source.
- You can also select the input source by pressing **INPUT**. Each time **INPUT** is pressed, the input source toggles.

HDMI1 → HDMI2 → HDMI3 ↓
TV ← - - - - - - - - - - - - HDMI4

- An image from the selected source automatically displays.
- If the corresponding input is not plugged in, you cannot change the input. Be sure to connect the equipment beforehand.

LC-80LE857U_757U_657U_E.indd 13 2013/02/21 13:35:59

Connecting to External Equipment

You can connect many types of external equipment to your TV. To view external source images, select the input source by pressing **INPUT** on the remote control unit or on the TV. (See pages 13 and 18.)
For connecting the TV to external equipment, use commercially available cables.

CAUTION

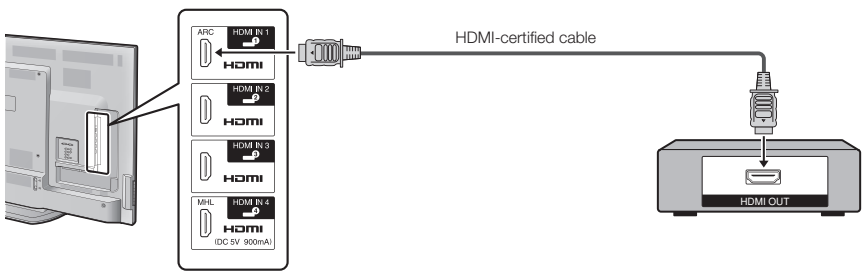
- To protect equipment, always turn off the TV before connecting any external equipment.
- Please read the relevant operation manual (Blu-ray disc player, etc.) carefully before making connections.

Connecting a Blu-ray Disc/DVD Player or HD Cable/Satellite Set-top Box

■ When using an HDMI cable (HDMI IN 1, 2, 3 or 4):

- The HDMI (High Definition Multimedia Interface) terminal is an audio-video interface that enables a connection for audio and video signals using a single cable. The HDMI IN terminal supports high-resolution video input.

• Blu-ray disc player • DVD player
• HD cable/satellite set-top box

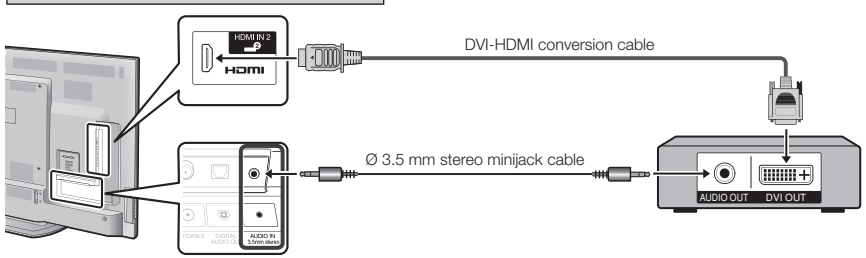


NOTE

- To enjoy 1080p display capability, connect your external equipment using an HDMI-certified cable or a component cable and set the equipment to 1080p output.
- Supported Audio format: Linear PCM, Dolby Digital, DTS, sampling rate 32/44.1/48kHz.
- When you connect ARC-compatible equipment, use HDMI IN 1.

■ When using a DVI-HDMI conversion cable (HDMI IN 2):

• Blu-ray disc player • DVD player
• HD cable/satellite set-top box

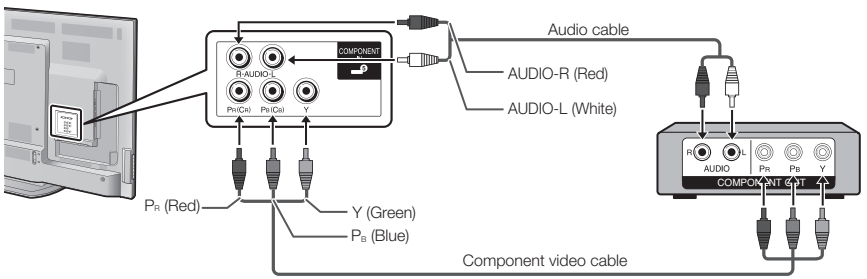


NOTE

- When using a DVI-HDMI conversion cable, you should make an analog audio connection. In this case, in addition to connecting a DVI-HDMI conversion cable to the HDMI IN 2 terminal, connect a Ø 3.5 mm stereo minijack cable to the AUDIO IN terminal and set "Audio Select" to "HDMI+Analog". (See page 44.)

■ When using a Component cable (COMPONENT IN):

• Blu-ray disc player • DVD player
• HD cable/satellite set-top box



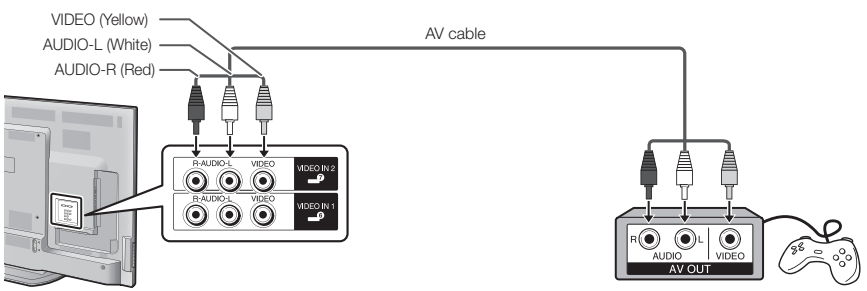
NOTE

- To enjoy 1080p display capability, connect your external equipment using an HDMI-certified cable or a component cable and set the equipment to 1080p output.

Connecting a VCR, Game Console, Camcorder or Cable/Satellite Set-top Box

■ When using a Composite cable (VIDEO IN 1 or 2):

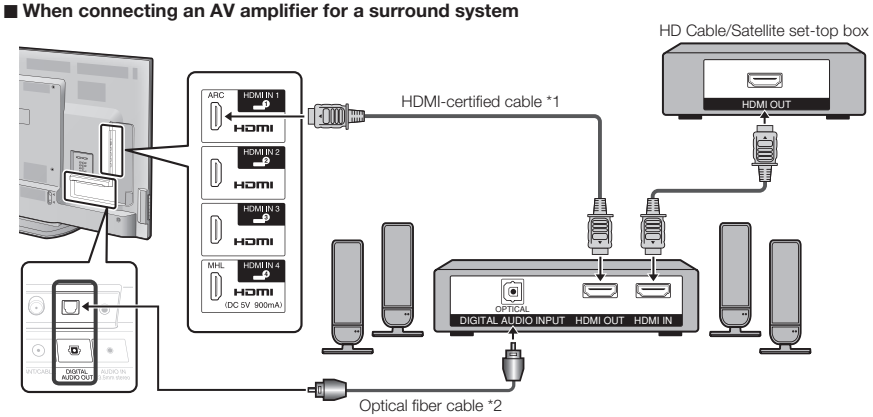
• Game console • VCR
• Camcorder • Cable/Satellite set-top box



LC-80LE857U_757U_657U_E.indd 14 2013/02/21 13:35:59

Connecting a Surround System/Audio System

■ **When connecting an AV amplifier for a surround system**



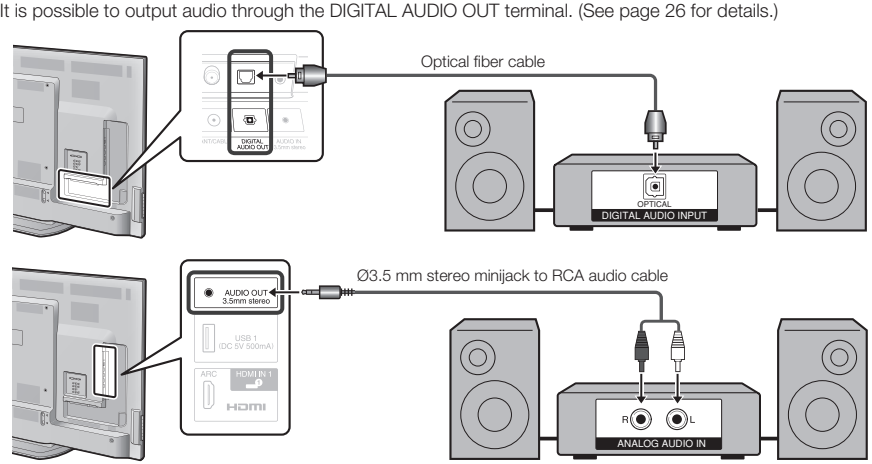
- Letting the TV output the audio to an AV amplifier:
  *1 When you connect ARC-compatible equipment, use the HDMI IN 1 terminal.
  *2 If the equipment to be connected is not compatible with the ARC, connect an optical fiber cable.

NOTE

- If the image is not in sync with the audio, check the settings of the connected surround system.

■ **When connecting an audio amplifier**

It is possible to output audio through the DIGITAL AUDIO OUT terminal. (See page 26 for details.)



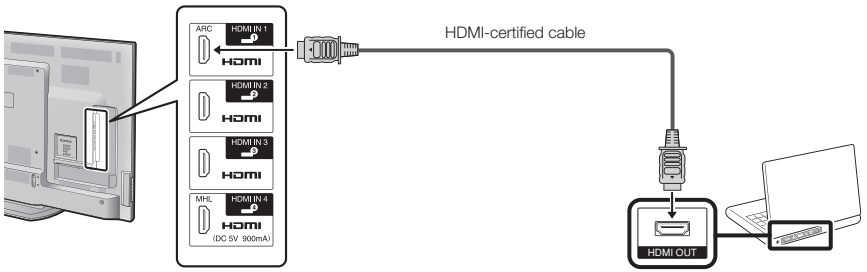
NOTE

- See page 27 for details on the Output Select function.

Connecting a PC

Refer to page 45 for a list of PC signals compatible with the TV.

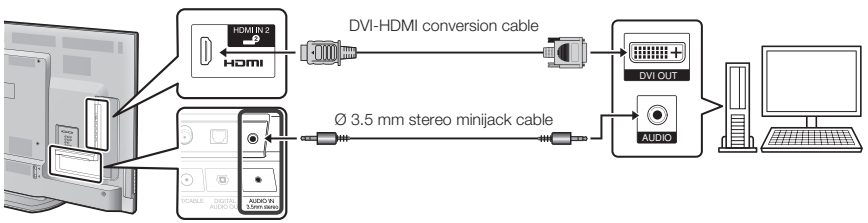
■ **When using an HDMI cable (HDMI IN 1, 2, 3 or 4):**



NOTE

- Depending on the board, only video signals may be output. In this case, in addition to connecting an HDMI-certified cable to the HDMI IN 2 terminal, connect a Ø 3.5 mm stereo minijack cable to the AUDIO IN terminal and set "Audio Select" to "HDMI+Analog". (See page 44.)
- The HDMI IN terminals only support digital signal.

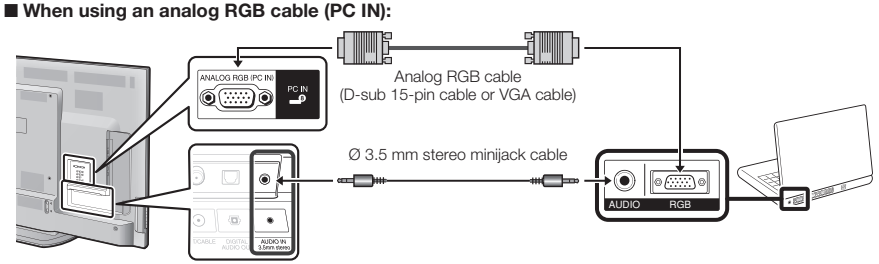
■ **When using a DVI-HDMI conversion cable (HDMI IN 2):**



NOTE

- When using a DVI-HDMI conversion cable, you should make an analog audio connection. In this case, in addition to connecting a DVI-HDMI conversion cable to the HDMI IN 2 terminal, connect a Ø 3.5 mm stereo minijack cable to the AUDIO IN terminal and set "Audio Select" to "HDMI+Analog". (See page 44.)

■ **When using an analog RGB cable (PC IN):**



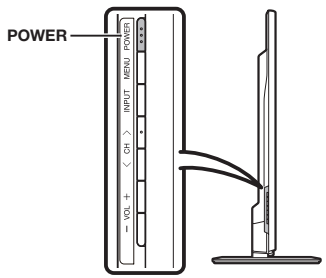
NOTE

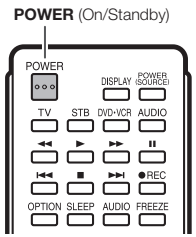
- When using an analog RGB cable, input the audio signal to the AUDIO IN terminal of PC IN.
- When connecting a PC to the PC IN, set "Audio Select" to "Video+Audio". (See page 44.)

LC-80LE857U_757U_657U_E.indd 15 2013/02/21 13:35:59

Watching TV

Turning On/Off the Power





Press **POWER** on the TV or on the remote control unit to turn the power on.

NOTE

- The Initial Installation starts when the TV powers on for the first time. If the TV has been turned on before, the Initial Installation will not be invoked. For changing the settings of the Initial Installation, perform "EZ setup" on the Initial Setup menu on page 28.

Press **POWER** on the TV or on the remote control unit again to turn the power off.

- The TV enters standby and the image on the screen disappears.

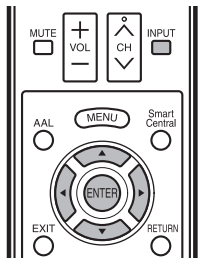
NOTE

- If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the AC outlet.
- Weak electric power is still consumed even when the TV is turned off.

Initial Installation

When you turn on the TV for the first time, it will automatically memorize the broadcasting channels available in the region where you live. Perform the following steps before you press **POWER** on the remote control unit.

1. Insert the batteries into the remote control unit. (See page 10.)
2. Connect the antenna cable to the TV. (See page 10.)
3. Plug in the AC cord to the AC outlet. (See page 9.)



Language (Language setting)

Select from among 3 languages: English, French and Spanish.

1 Press ▲/▼ to select the desired language listed on the screen, and then press **ENTER**.

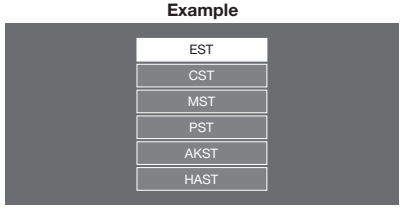
Location & Time

Make settings for the country, area and time zone where you use the TV.

2 Press ▲/▼ to select "United States", "Canada" or "Mexico", and then press **ENTER**.

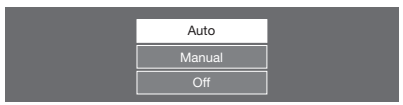
3 Press ▲/▼ to select the time zone where you are using the TV, and then press **ENTER**.

Example



- The time zone differs depending on the selected country.
- The factory preset value is the time zone for the capital of the selected country.

4 Press ▲/▼ to select the Daylight Savings Time, and then press **ENTER**.

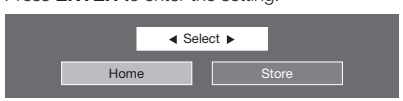


- "Auto" is the default selection.

TV Location

Select "Home" or "Store" for the location where you plan to install the TV. This product qualifies for ENERGY STAR*1 in Home mode default setting.

5 Press ◀/▶ to select "Home" or "Store". Press **ENTER** to enter the setting.



Home: "Power Saving" is set to "Advanced", and AV MODE is set to "STANDARD (ENERGY STAR)*1".
Store: "Power Saving" is set to "Off" and AV MODE is set to "DYNAMIC (Fixed)". Picture Reset and Feature Demo can be set.
Picture Reset: AV MODE will be set to "DYNAMIC (Fixed)" regardless of whether Picture Reset is "On" or "Off".
- If you select "On" and there is no operation for 30 minutes:
  - AV MODE will be reset to "DYNAMIC (Fixed)".
  - When a 3D signal is detected, 3D images will switch to 2D images. (For the LE857U, LE757U, LE755U, LE657U and LE655U models)
- When "Off" is selected:
  - AV MODE will be set to "DYNAMIC (Fixed)".

Feature Demo: When "On" is selected, after all the settings are completed, the Feature Demo screen is displayed if there is no operation for several minutes.

NOTE

- ENERGY STAR qualification is based on AV MODE "STANDARD (ENERGY STAR)".*1

Antenna & Cable/STB

Select the type of connection you will use to watch TV.

6 Press ◀/▶ to select "Antenna & Cable" or "Set-top box", and then press **ENTER**.

To watch TV via an antenna or cable connection (without using a set-top box):
Select "Antenna & Cable", and then go to step 7.

To watch TV via a set-top box:
① Select "Set-top box", and then press **ENTER**.
② Please make sure your set-top box is turned on, and then press **ENTER**.
③ To watch TV, select the input source corresponding to the terminal connected to the set-top box. When doing so, you must make the setting to skip "TV". Press ◀/▶ to select "On", and then press **ENTER**.

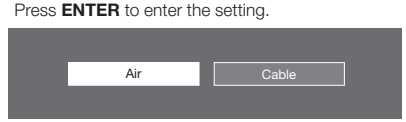
- When this is set to "On", the channel on the TV cannot be changed using the remote control unit or menu. (e.g. CH ∧/∨, Favorite CH, etc.)
- See page 26 for details on the Input Skip function.

④ Press **INPUT** to select the input source corresponding to the terminal connected to the set-top box. Make the necessary settings on the connected external equipment.
- See the operation manual of the connected equipment for setting up the equipment.

Air/Cable (Antenna setting)

Make sure what kind of connection is made with your TV when selecting "Air" or "Cable".

7 Press ◀/▶ to select "Air" or "Cable". Press **ENTER** to enter the setting.



NOTE

- *1: Except for LC-90LE657U

LC-80LE857U_757U_657U_E.indd 16 2013/02/23 16:34:43

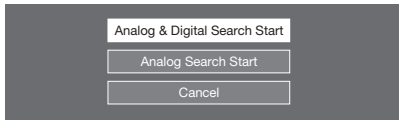
CH Search (Channel search)

Channel auto search makes the TV look for all channels viewable in the set area.

8 **When "Air" is selected in Antenna setting:**
Press ◄/► to select "Start", and then press **ENTER**.

When "Cable" is selected in Antenna setting:

①Press ▲/▼ to select "Analog & Digital Search Start" to search both analog and digital broadcasts, or to select "Analog Search Start" to search only analog broadcasts, and then press **ENTER**.



- The Channel search will start automatically.
- To exit the Channel search screen, select "Cancel", and then press **ENTER**.

②The Channel search results may include scrambled channels or channels that are not viewable in the set area. Press ◄/► to select "Yes", and then press **ENTER** to remove scrambled channels.

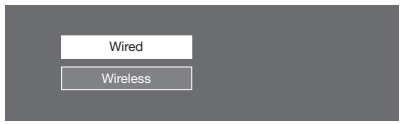
Network

When you connect to the Internet on the TV, select the desired connection method and follow the instructions shown on the display.

- Wireless LAN connection is possible only when the WPS (push button) method is used. If any other method is used, make settings by Initial Setup > Internet Setup > Network Setup. (See pages 46 to 47.)

9 Press ◄/► to select "Yes", and then press **ENTER**.

10 Press ▲/▼ to select "Wired" or "Wireless", and then press **ENTER**.



Connection using an ETHERNET cable:

①Select "Wired" and press **ENTER**.

②Confirm that the TV is properly connected with the router, and then press "Next". Follow the instructions on the display to perform the connection test.

Wireless LAN connection by the WPS method:

①Select "Wireless" and press **ENTER**.

②Follow the instructions on the display, and finalize the connection after testing its viability.

NOTE

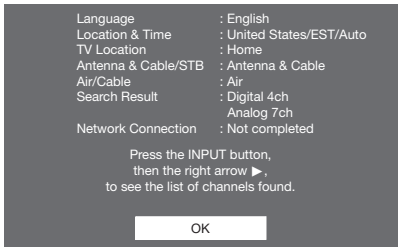
- When you change the network settings, refer to Initial Setup > Internet Setup > Network Setup. (See pages 46 to 47.)

Completed

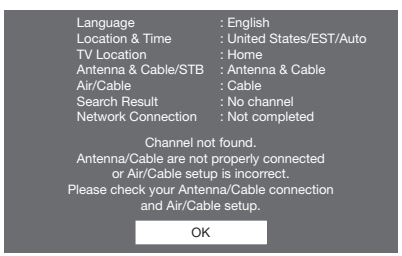
11 The settings confirmation screen is displayed. Confirm the information displayed on the screen, and then press **ENTER**.

Examples of the settings confirmation screen

When one or more channel is received after "Antenna & Cable" was selected in step 6 and a search was carried out.


Language : English
Location & Time : United States/EST/Auto
TV Location : Home
Antenna & Cable/STB : Antenna & Cable
Air/Cable : Air
Search Result : Digital 4ch
Analog 7ch
Network Connection : Not completed
Press the INPUT button,
then the right arrow ►,
to see the list of channels found.
OK

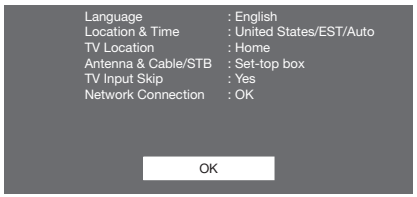
When no channel is received after "Antenna & Cable" was selected in step 6 and a search was carried out.


Language : English
Location & Time : United States/EST/Auto
TV Location : Home
Antenna & Cable/STB : Antenna & Cable
Air/Cable : Cable
Search Result : No channel
Network Connection : Not completed
Channel not found.
Antenna/Cable are not properly connected
or Air/Cable setup is incorrect.
Please check your Antenna/Cable connection
and Air/Cable setup.
OK

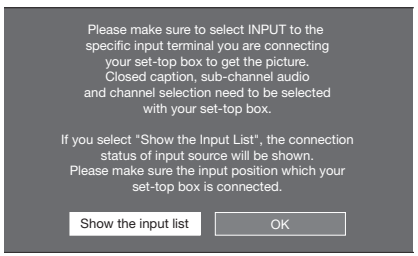
NOTE

- If no channel is found, confirm the type of connection made with your TV and try "EZ Setup" again. (See page 28.)
- To see the list of channels found during Channel search, press **INPUT**, and then press ►.

When "Set-top box" was selected in step 6.

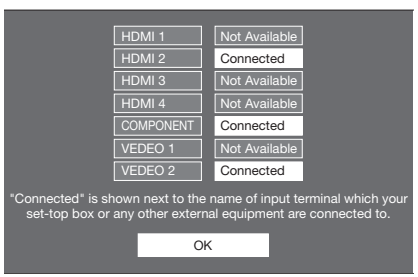

Language : English
Location & Time : United States/EST/Auto
TV Location : Home
Antenna & Cable/STB : Set-top box
TV Input Skip : Yes
Network Connection : OK
OK

- Click "OK" to display the confirmation screen for input source switching.


Please make sure to select INPUT to the
specific input terminal you are connecting
your set-top box to get the picture.
Closed caption, sub-channel audio
and channel selection need to be selected
with your set-top box.
If you select "Show the Input List", the connection
status of input source will be shown.
Please make sure the input position which your
set-top box is connected.
Show the input list
OK

Show the input list: You can check the current connection status of external equipment. Confirm which input terminal is connected to the set-top box.

OK: Clicking "OK" will complete the EZ Setup procedure.


HDMI 1 Not Available
HDMI 2 Connected
HDMI 3 Not Available
HDMI 4 Not Available
COMPONENT Connected
VEDEO 1 Not Available
VEDEO 2 Connected
"Connected" is shown next to the name of input terminal which your
set-top box or any other external equipment are connected to.
OK

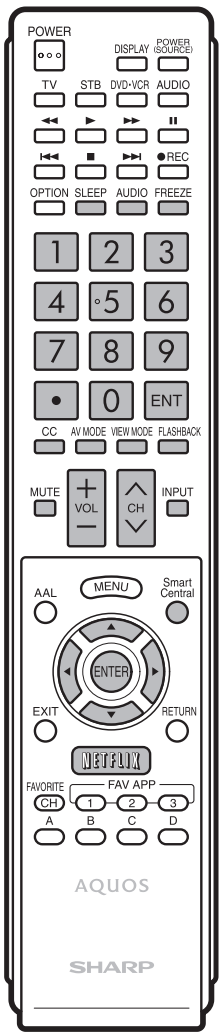
- This may not display correctly depending on the connected equipment.
- This is not displayed correctly when the connected equipment is off.
- To watch TV using a set-top box, press **INPUT** after completing the initial settings, and select the input to which the set-top box is connected.

NOTE

- For changing the settings of the Initial Installation, perform "EZ setup" on the Initial Setup menu on page 28.

LC-80LE857U_757U_657U_E.indd 17 2013/02/21 13:36:00

Direct Button Operation



Changing Channels

You can change channels in several ways.

Method 1

Using **CH**∧/∨ on the remote control unit or on the TV.

Method 2

Using remote control buttons **0**-**9**, • (DOT).

Examples:

To select a 1 or 2-digit channel number (e. g., Channel 5):

Press **5** ⟶ **ENT**.

To select a 3-digit channel number (e. g., Channel 115):

Press **1** ⟶ **1** ⟶ **5** ⟶ **ENT**.

To select a 4-digit channel number (e. g., Channel 22.1):

Press **2** ⟶ **2** ⟶ **• (DOT)** ⟶ **1** ⟶**ENT**.

Method 3

Selecting the program from the Channel list.

1 Press **INPUT** on the remote control unit.
- The INPUT list displays.

2 Press ◀/▶ to select "AIR" or "CABLE".
- The Channel list displays.

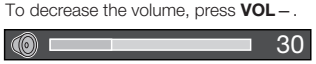
3 Press ▲/▼ to select the desired channel, and then press **ENTER**.

NOTE

- When selecting a 1-digit channel number, it is not necessary to press **0** before the number.
- When you enter **0**-**9** only, channel selection will be made if there is no operation within a few seconds.
- If you push "0" by itself, nothing will happen.
- Complete the above steps within a few seconds.
- When you enter **0**-**9** and • (DOT), channel selection will be made if there is no operation within a few seconds.

Changing Volume

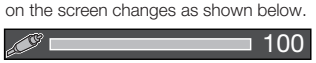
You can change the volume by pressing **VOL**+/− on the TV or on the remote control unit.
- To increase the volume, press **VOL**+.
- To decrease the volume, press **VOL**−.



Audio status

Output device	Output Select	
	Fixed	Variable
Speaker	Variable sound	Mute

- When "Output Select" is set to "Variable", the indicator on the screen changes as shown below.



NOTE

- See page 27 for details on the Output Select function.

MUTE

Mutes the current sound output.

Press **MUTE**.
- "🔇" will be displayed on the screen for 30 minutes, and the sound is silenced.

NOTE

- Within 30 minutes of pressing **MUTE**, mute can be canceled by pressing **VOL**+/− or **MUTE**.
- Mute will be canceled after 30 minutes have passed. However, the TV will not suddenly output a loud sound as the volume level is set to 0 automatically.

FREEZE

Allows you to capture and freeze a moving image that you are watching.

Press **FREEZE**.
- A moving image is captured.
- Press **FREEZE** again to cancel the function.

NOTE

- When this function is not available, "No displaying still image available." will display.
- The still image automatically goes out after 30 minutes.
- If you are using the freeze function and a broadcast activates the V-CHIP BLOCK, the freeze function will be canceled and a V-CHIP BLOCK message will appear.
- You can have the same settings by choosing "Freeze" on the menu items. (See page 26.)

INPUT

To view external source images, select the input source by pressing **INPUT** on the remote control unit or on the TV.

1 Press **INPUT**.
- The INPUT list screen displays.

2 Press ▲/▼ or press **INPUT** again to select the input source.
- An image from the selected source automatically displays.
- Each time **INPUT** is pressed, the input source toggles.
- If the corresponding input is not plugged in, you cannot change the input. Be sure to connect the equipment beforehand.

NOTE

- See pages 13 to 15 and 41 for external equipment connection.

FLASHBACK

Press **FLASHBACK** to switch to the previously tuned channel or previous input mode.
- Press **FLASHBACK** again to switch back to the currently tuned channel.

NOTE

- **FLASHBACK** will not work if no channel has been changed after the TV is turned on.

SmartCentral

Allows you to directly activate various types of applications.

1 Press **SmartCentral** to display the application window.
- Press **SmartCentral** again to display a list of applications by category.

2 Press ◀/▶(or ▲/▼) to select the desired application, and then press **ENTER**.
- If you changed the display to the list of applications in step 1, select a category and then an application. See page 49 for details.
- If "🖧" is displayed after you switch to USB mode, check the USB connection.
- If "🖧" or "🖧" is displayed after you switch to Home Network (DLNA) mode or after you connect to the Internet, check your TV's network settings and connection.

NOTE

- See pages 36, 47 to 49 for details of viewable applications.
- You can display the application window by choosing "APPS" on the menu items. (See page 26.)
- When this function is not available, "Can not operate this function now" will display.

LC-80LE857U_757U_657U_E.indd 18 2013/02/21 13:36:00

NETFLIX

Displays the Netflix screen.

Press **NETFLIX**.

NOTE

- To enjoy Netflix, you need to make:
  —a broadband Internet connection (See page 46.)
  —settings of Internet Setup (See pages 46 to 47.)
  —adjustments for Netflix (See page 49.)

AUDIO

■ MTS/SAP stereo mode

The TV has a feature that allows reception of sound other than the main audio for the program. This feature is called Multi-channel Television Sound (MTS). The TV with MTS can receive mono sound, stereo sound
and Secondary Audio Programs (SAP). The SAP feature allows a TV station to broadcast other information, which could be audio in another language or something completely different like weather information.

You can enjoy Hi-Fi stereo sound or SAP broadcasts where available.

- **Stereo broadcasts:** View programs like live sporting events, shows and concerts in dynamic stereo sound.
- **SAP broadcasts:** Receive TV broadcasts in either MAIN or SAP sound.
  MAIN sound: The normal program soundtrack (either in mono or stereo).
  SAP sound: Listen to a second language, supplementary commentary or other information. (SAP is mono sound.)

If stereo sound is difficult to hear.

- Obtain a clearer sound by manually switching to fixed mono-sound mode.

You can change MTS as shown below to match the television broadcast signal.

Press **AUDIO** to toggle between audio modes.

Examples: when receiving MTS and SAP

STEREO mode: STEREO ⟷ MONO

STEREO + SAP mode: ST(SAP) ➡ SAP(ST) ➡ MONO ↩

MAIN + SAP mode: MAIN ⟷ SAP

MONO mode: MONO

■ Digital broadcasting audio mode

The types of audio transmitted in a digital broadcast include SURROUND as well as MONO and STEREO. In addition, it is possible for multiple audio tracks to accompany a single video track.

Press **ENTER** to toggle between audio modes.

Example: when receiving Digital broadcasting

STEREO (Audio1) ➡ STEREO (Audio2)
↩ SURROUND (Audio3) ⟵

NOTE

- MTS only operates while in TV mode.
- You can have the same settings by choosing "Change Audio" on the menu items. (See page 26.)

Sleep Timer

Allows you to set a time when the TV automatically switches to standby.

Press **SLEEP**.

- The remaining time displays when the sleep timer has been set.
- Each time you press **SLEEP**, the remaining time switches as shown below.

Off ➡ 30 ➡ 60 ➡ 90 ➡ 120 ↩

- When set, the time automatically starts counting down.
- If you want to adjust the sleep timer, you can press **SLEEP** twice then change the time setting.
- When it is 5 minutes before the time expires, the remaining time will start to keep appearing every minute.

NOTE

- Select "Off" by pressing **SLEEP** to cancel the sleep timer.
- The TV will enter standby when the remaining time reaches 0.

AV MODE

AV MODE gives you several viewing options to choose from to best match the surrounding environment of the TV, which can vary due to factors like room brightness, type of program watched or the type of device connected.

You can use USER Mode to create customized settings for each TV input. These settings will be automatically saved on each input for convenience.

Press **AV MODE**. Current AV MODE displays.

- Press **AV MODE** again before the mode displayed on the screen disappears. The mode changes as shown below:
- **Example:**
  When using the COMPONENT IN, VIDEO IN 1 or 2 terminals

■ LE857U, LE757U, LE755U and C7500U models

AUTO ➡ STANDARD (ENERGY STAR) ➡ MOVIE ⬇
DYNAMIC (Fixed) ⬆ VINTAGE MOVIE ⬇
DYNAMIC ⬅ USER [TV] ⬅ GAME (Standard) ⬆

■ LE657U, LE655U, LE650U and C6500U models

AUTO ➡ STANDARD (ENERGY STAR)*1 ➡ MOVIE ⬇
DYNAMIC (Fixed) ⬅ DYNAMIC ⬅ USER [TV] ⬅ GAME ⬆

- **Example:**
  When using the PC IN or HDMI IN 1 to 4 terminals

■ LE857U, LE757U, LE755U and C7500U models

AUTO ➡ STANDARD (ENERGY STAR) ➡ MOVIE ⬇
DYNAMIC (Fixed) ⬆ VINTAGE MOVIE ⬇
DYNAMIC ⬆ GAME (Standard) ⬇
x.v.Color* ⬅ USER[ ] ⬅ PC ⬆

*"x.v.Color" can only be selected when an x.v.Color signal is input using HDMI IN 1 to 4 terminals.

■ LE657U, LE655U, LE650U and C6500U models

AUTO ➡ STANDARD (ENERGY STAR)*1 ➡ MOVIE ⬇
DYNAMIC (Fixed) ⬆ GAME ⬇
DYNAMIC ⬅ USER[ ] ⬅ PC ⬆

AUTO: Optimizes the image quality automatically based on the room brightness and image signal.
STANDARD (ENERGY STAR)*1: For a highly defined image in a normal lighting.
MOVIE: For a movie.
VINTAGE MOVIE: Allows you to enjoy old-time films in a good old-fashioned way, where the images look as if they were projected in real time in those days. (For the LE857U, LE757U, LE755U and C7500U models)
GAME (Standard/High Motion): Suitable for game playing. You can configure the settings according to the type of the game. Refer to "Picture Setting" > "Advanced" > "Game Type". (For the LE857U, LE757U, LE755U and C7500U models) (See page 24.)
GAME: Lowers image brightness for easier viewing. (For the LE657U, LE655U, LE650U and C6500U models)
PC: For PC.
USER: Allows the user to customize settings as desired. You can set the mode for each input source.
x.v.Color: Supports the x.v.Color international standard for wide color space. The x.v.Color signal allows you to experience colors that conventional color signals cannot reproduce. (For the LE857U, LE757U, LE755U and C7500U models)
DYNAMIC: For a clear-cut image emphasizing high contrast, useful for sports viewing.
DYNAMIC (Fixed): Changes the image and sound settings to the factory preset values. No adjustments are allowed.

NOTE

- You can select a different AV MODE item for each input mode. (For example, select STANDARD (ENERGY STAR)*1 for TV input and DYNAMIC for COMPONENT.)
- When you play games, "GAME" is recommended for AV MODE.
- You cannot set "PC" when the TV is connected to the Internet.
- You cannot set "GAME" or "PC" when the input source is "Home Network (DLNA)" or "USB".
- You can have the same settings by choosing "AV MODE" on the menu items. (See page 24.)
- *1: Except for LC-90LE657U

LC-80LE857U_757U_657U_E.indd 19 2013/02/26 18:06:02

Closed Captions and Digital Closed Captions

Your TV is equipped with an internal Closed Caption decoder. It allows you to view conversations, narration and sound effects as subtitles on your TV. Closed Captions are available on some TV programs and on some VHS home video tapes at the discretion of the program provider.

Digital Closed Caption service is a new caption service available only on digital TV programs (also at the discretion of the service provider). It is a more flexible system than the original Closed Caption system, because it allows for a variety of caption sizes and font styles. When the Digital Closed Caption service is in use, it will be indicated by the appearance of a 3-letter abbreviation that also indicates the language of the Digital Closed Captions: ENG (English), SPA (Spanish), FRA (French) or other language codes.

Not all programs and VHS videotapes offer closed captions. Please look for the "CC" symbol to ensure that captions will be shown.

In the Closed Caption system, there can be more than one caption service provided. Each is identified by its own number. The "CC1" and "CC2" services display subtitles of TV programs superimposed over the program's picture.

In the Closed Caption system, the "Text1" or "Text2" services display text that is unrelated to the program being viewed (e.g., weather or news). These services are also superimposed over the program currently being viewed.

1 Press **CC**.
- This will present the Closed Caption information display.

2 Press **CC** while the Closed Caption information is still on the screen.
- Press repeatedly until you select the desired closed caption service.

- Depending on the number of caption services in the signal being received, you will see information such as 1/2 or 1/4 displayed.
  1/2 means "the first of two services".
  Example:
  If a program has three services (Digital CC(ENG), CC1 and Text1), the closed caption display will toggle in this sequence:

- The **CC** button keeps a record of the last service selected in its memory.
  If the last closed caption mode (e.g. 1/3 ENG) you selected is not available for the next program, or on another channel, the closed caption service that is available is automatically selected, and this service appears in parentheses, e.g. "1/3(CC1)".
  Closed Caption services that appear in parentheses will not be stored in the **CC** button's memory as your last selected service. Only services that you have selected with the **CC** button are stored.

Examples:
In a case where there are two closed caption services provided (for instance, Digital CC(ENG) and CC1), and Digital CC(ENG) is displayed as your current selection, if Digital CC(ENG) is not broadcast for the next program, the other closed caption service, CC1, will be displayed in parentheses.
A closed caption service appears in parentheses because the service you selected is not available and a different service is displayed on your screen.
"1/1(CC1)" is displayed instead of "1/2/ENG".

NOTE
- When "Power Saving" is set to "Standard" or "Advanced", the Power Saving leaf icon appears on the channel information window. See page 26 for details of Power Saving settings.
- See page 27 for detailed closed caption settings.
- When the program contains no closed caption, "--" displays in the closed caption information.
- If the language code, e.g. "ENG", is not found on Digital TV programs, "--" will be shown.
- Four kinds of closed caption service (CC1, CC2, Text1, Text2) are potentially available, but a broadcast may contain none or only some of these services at the discretion of the program provider.
- When a web page is displayed, Closed Captions are not available.
- You can have the same settings by choosing "Change CC" on the menu items. (See page 26.)

VIEW MODE

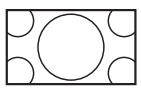
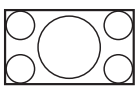
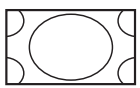
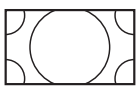
You can select the screen size.

1 Press **VIEW MODE**.
- The View Mode menu displays.
- The menu lists the View Mode options selectable for the type of video signal currently being received.

2 Press **VIEW MODE** or ▲/▼ while the View Mode menu is displayed to select a desired item on the menu.
- You can sequentially select a View Mode that has its own aspect ratio.

NOTE
- You can have the same settings by choosing "View Mode" on the menu items. (See page 26.)
- Each time you press **VIEW MODE** when a browser screen is shown, the display pattern toggles between a website-only screen and a TV+Web screen.
- You may not be able to change the View Mode while in 3D mode. (For the LE857U, LE757U, LE755U, LE657U and LE655U models)

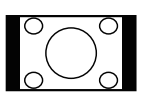
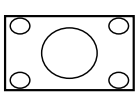
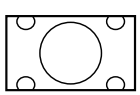
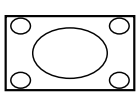
■ For HD programs

Stretch	Dot by Dot (Full Screen)	S.Stretch (Smart stretch)	Zoom
			
Suitable for viewing wide-screen 1.78:1 aspect ratio program, stretch mode will still show very thin black bands at the top and bottom of the screen.	**Dot by Dot (1080i/p only):** Detects the resolution of the signal and displays an image with the same number of pixels on the screen. **Full Screen (720p only):** You can select "Full Screen" only when receiving a 720p signal.	Suitable for stretching 4:3 programs to fill the screen.	Suitable for viewing wide-screen 2.35:1 aspect-ratio programs in full screen.

NOTE
- When using Dot by Dot or Full Screen, it is possible to see noise or bars around different outer portions of the screen. Please change view mode to correct this.

■ For 4:3 programs

Example: Screen size images

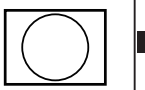
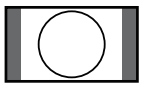
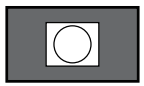
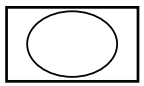
Side Bar	S.Stretch (Smart stretch)	Zoom	Stretch
			
Suitable for viewing conventional 4:3 programs in their normal format.	Suitable for stretching 4:3 programs to fill the screen.	Suitable for viewing wide-screen 2.35:1 anamorphic DVDs in full screen.	This mode is useful for 1.78:1 DVDs. When viewing 1.85:1 DVDs, stretch mode will still show very thin black bands at the top and bottom of the screen.

LC-80LE857U_757U_657U_E.indd 20 2013/02/21 13:36:00

Direct Button Operation

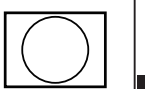
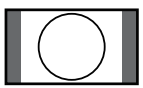
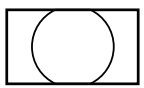
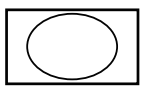
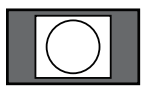
■ **For USB-Video, DLNA-Video or Internet applications**

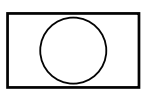
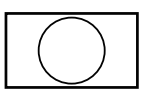
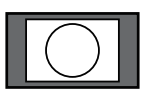
Example: Screen size images

Input signal	Auto	Original	Stretch
	 Keeps the original aspect ratio in a full screen display.	 Displays an image by an original size.	 An image fully fills the screen.

■ **For PC**

Example: Screen size images

Input signal	Normal	Zoom	Stretch	Dot by Dot
 4:3	 Keeps the original aspect ratio in a full screen display.	 For viewing widescreen programs. The top and bottom of the image is cropped.	 An image fully fills the screen.	 Detects the resolution of the signal and displays an image with the same number of pixels on the screen.

Input signal	Stretch	Dot by Dot
 16:9	 An image fully fills the screen.	 Detects the resolution of the signal and displays an image with the same number of pixels on the screen.

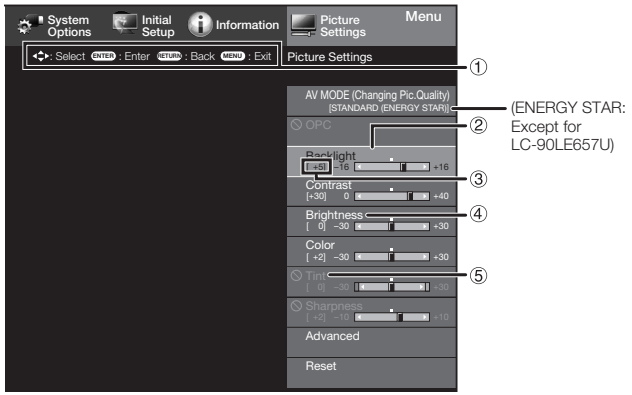
NOTE

- Connect the PC before making adjustments. (See page 15.)
- Selectable screen size may vary with input signal type.

LC-80LE857U_757U_657U_E.indd 21 2013/02/21 13:36:00

On-Screen Display Menu

LCFONT embedded



① Guide display
- This indicates the buttons that can be operated on the displayed screen. The guide display varies depending on the menu setting screen.
- The operations for some selected items may be displayed in the operational guide bar at the bottom of the screen.

② Item displayed in blue
- This indicates the item currently selected.
- Press **ENTER** to go to the adjustment screen for this item.

③ Item in brackets
- This indicates the current setting for the item.

④ Item displayed in white
- This indicates that the item can be selected.

⑤ Item displayed in gray
- This indicates that the item cannot be selected.
  There are various reasons why the items cannot be selected, but the main reasons are as follows:
  — Nothing is connected to the selected input terminal.
  — The function is not compatible with the current input signal.

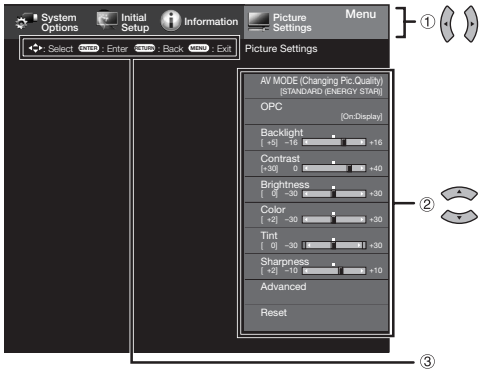
■ About Menu Items
- When AV MODE is set to "AUTO", part of the menu may not be displayed correctly or the setting range of the menu may be changed.
- Some menu items may not be displayed depending on the selected input source.

NOTE
- The screens in the operation manual are for explanation purposes (some are enlarged, others cropped) and may vary slightly from the actual screens.
- The order of explanations for each menu item in the following pages is not necessarily in accordance with the alignment of the items on the screen.

LCFONT:
- This product is embedded with LC Font technology, which was developed by SHARP Corporation for clearly displaying easy-to-read characters on LCD screens.

On-Screen Display Menu Operation

Example



1 Press **MENU** to display the MENU screen.

2 ① Press ◀/▶ to select the desired menu.
② Press ▲/▼ to select a specific adjustment item, and then press **ENTER**.
- Additional related adjustment items may be displayed. Press ▲/▼ to select the desired item.

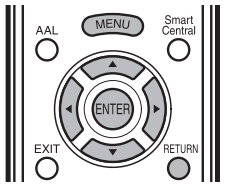
③ Adjust the item while referring to the guide display.
- Operations vary depending on the function or item. Refer to the guide display corresponding to the menu setting screen for button operations.

3 Press **MENU** to exit.

NOTE
- Menu options differ in the selected input modes, but the operating procedures are the same.

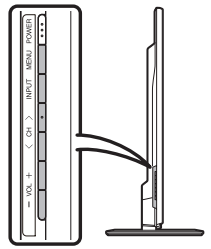
Menu Operation Buttons

Using the remote control
Use the following buttons on the remote control to operate the menu.



MENU: Press to open or close the menu screen.
▲/▼/◀/▶: Press to select a desired item on the screen or adjust a selected item.
ENTER: Press to go to the next step or complete the setting.
RETURN: Press to return to the previous step.

Using the control panel of the TV
You can also operate the menu with the control panel of the TV.
Button operations on the control panel correspond to the ones on the remote control as shown below.



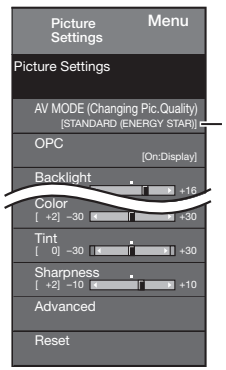
MENU: **MENU** on the remote control.
INPUT: **ENTER** on the remote control.
CH∧/∨: Cursor ▲/▼ on the remote control.
VOL+/−: Cursor ◀/▶ on the remote control.

LC-80LE857U_757U_657U_E.indd 22 2013/02/23 16:35:04

Menu Items

Picture Settings

Example



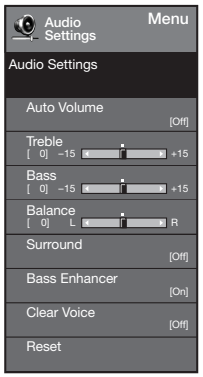
(ENERGY STAR: Except for LC-90LE657U)

AV MODE (Changing Pic.Quality) ..... Pages 24 and 34
OPC ..... Page 24
Backlight ..... Page 24
3D Brightness Boost (for the LE857U, LE757U and LE755U models) ..... Page 34
Contrast ..... Page 24
Brightness ..... Page 24
Color ..... Page 24
Tint ..... Page 24
Sharpness ..... Page 24
Advanced ..... Pages 24-25
- C.M.S.-Hue ..... Page 24
- C.M.S.-Saturation ..... Page 24
- C.M.S.-Value ..... Page 24
- Color Gamut Range (for the LE857U, LE757U, LE755U and C7500U models) ..... Page 24
- Color Temp. ..... Page 24
- Motion Enhancement ..... Page 24
- Game Type (for the LE857U, LE757U, LE755U and C7500U models) ..... Page 24
- Shutter Effect (for the LE857U, LE757U, LE755U and C7500U models) ..... Page 25
- Lamp Swing Effect (for the LE857U, LE757U, LE755U and C7500U models) ..... Page 25
- Quad Pixel Plus 2 (for the LE857U and LE757U, models) ..... Page 25
- Active Contrast ..... Page 25
- Gamma Adjustment ..... Page 25
- Black Level ..... Page 25
- Film Mode ..... Page 25
- Digital Noise Reduction ..... Page 25
- Monochrome ..... Page 25
- Range of OPC ..... Page 25

Reset ..... Page 24

Audio Settings

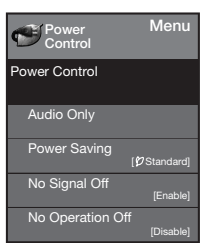
Example



Auto Volume ..... Page 25
Treble ..... Page 25
Bass ..... Page 25
Balance ..... Page 25
3D Surround (for the LE857U, LE757U, LE755U, LE657U and LE655U models) ..... Page 25
Surround (for the LE650U, C7500U and C6500U models) ..... Page 25
Bass Enhancer ..... Page 25
Clear Voice ..... Page 25
Reset ..... Page 25

Power Control

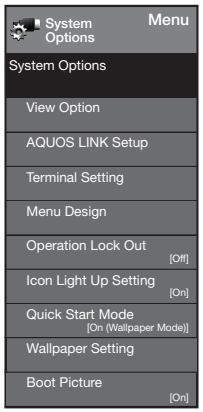
Example



Audio Only ..... Page 26
Power Saving ..... Page 26
No Signal Off ..... Page 26
No Operation Off ..... Page 26

System Options

Example



View Option ..... Pages 26, 39
- APPS ..... Page 26
- USB Operation Panel ..... Page 39
- Home Network (DLNA) Operation Panel ..... Page 39
- View Mode ..... Page 26
- Freeze ..... Page 26
- Change Audio ..... Page 26
- Change CC ..... Page 26

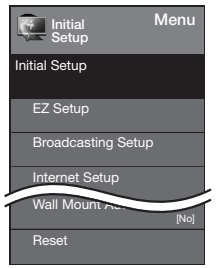
3D Setup (for the LE857U, LE757U, LE755U, LE657U and LE655U models) ..... Page 34
AQUOS LINK Setup ..... Page 42
Terminal Setting ..... Pages 26-27, 44
- Audio Setup ..... Page 26
- PC input ..... Page 44
- Audio Select ..... Page 44
- Input Skip ..... Page 26
- Input Label ..... Page 27
- HDMI Setup ..... Page 27
- Output Select ..... Page 27
- Color System ..... Page 27

Menu Design ..... Page 27
- Channel Selecting Effect ..... Page 27
- Program Title Display ..... Page 27
- Position ..... Page 27
- Caption Setup ..... Page 27

Game Play Time ..... Page 27
Operation Lock Out ..... Page 27
Icon Light Up Setting ..... Page 27
Quick Start Mode ..... Page 27
Wallpaper Setting ..... Page 27
Boot Picture ..... Page 28
Response Tone (for the LE857U, LE757U, LE755U and C7500U models) ..... Page 28
Demo Mode ..... Page 28

Initial Setup

Example



EZ Setup ..... Page 28
- Language ..... Page 28
- Location & Time ..... Page 28
- TV Location ..... Page 28
- Antenna & Cable/STB ..... Page 28
- Air/Cable ..... Page 28
- CH Search ..... Page 28
- Network ..... Page 28
- Completed ..... Page 28

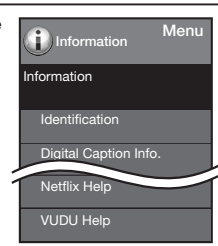
Broadcasting Setup ..... Page 28
- CH Setup ..... Page 28
- Favorite CH ..... Page 28
- Antenna Setup-DIGITAL ..... Page 28

Internet Setup ..... Pages 39, 44, 46-47
Bluetooth Setup (for the LE857U, LE757U, LE755U, LE657U and LE655U models) ..... Page 29
Language ..... Page 29
DivX® Setup ..... Page 39
Individual Setup ..... Pages 29-30
- Secret No. ..... Page 29
- Parental CTRL ..... Pages 29-30

Wall Mount Audio Setup ..... Page 29
Reset ..... Page 29

Information

Example



Identification ..... Page 30
Digital Caption Info. ..... Page 30
Software Update ..... Pages 30-32
- Manual Update ..... Pages 31-32
- Auto Update Setting ..... Page 30

Softwere License ..... Page 52
Netflix Help ..... Page 49
VUDU Help ..... Page 49

LC-80LE857U_757U_657U_E.indd 23 2013/02/23 16:35:04

Picture Settings

Adjusts the picture to your preference with the following picture settings.

NOTE

- For operating the on-screen display menu, see page 22.

Selected item	◄ button	► button
Backlight	The screen dims	The screen brightens
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Color	For less color intensity	For more color intensity
Tint	Skin tones become reddish	Skin tones become greenish
Sharpness	For less sharpness	For more sharpness

- You can select "3D Brightness Boost" while in 3D mode. (For the LE857U, LE757U and LE755U models) (See page 34.)
- For resetting all Picture adjustment items to the factory preset values, press ▲/▼ to select "Reset", press **ENTER**, press ▲/▼ to select "Yes", and then press **ENTER**.

AV MODE (Changing Pic.Quality)

The audio and video settings can be changed to suit the program or input content being watched.

NOTE

- The selectable items vary depending on the input source and on the model of your TV.
- For details of the selectable items in 3D mode, see page 34. (For the LE857U, LE757U, LE755U, LE657U and LE655U models)
- You can select AV MODE by pressing **AV MODE** on the remote control unit. See page 19 for details of AV MODE settings.

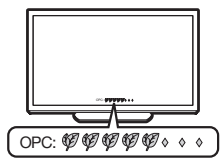
OPC Setting

Automatically adjusts the brightness of the screen.

Off: The brightness is fixed at the value set in "Backlight".
On: Automatically adjusts.
On:Display: Displays the OPC effect on the screen while adjusting the brightness of the screen.

NOTE

- When set to "On", the Optical Picture Control (OPC) senses the surrounding light and automatically adjusts the backlight brightness. Make sure nothing obstructs the OPC sensor, which could affect its ability to sense surrounding light.
- When set to "On:Display", OPC effect displays on the screen while the OPC adjusts the screen brightness.



Advanced Picture Settings

This TV provides various advanced functions for optimizing the picture quality.

C.M.S. (Color Management System)

Color tone is managed using the six-color adjustment setting.

C.M.S.-Hue: This is a standard to adjust the color either more reddish or more bluish in tone.
C.M.S.-Saturation: Increases or decreases the saturation of a selected color.
C.M.S.-Value: A higher value makes the image brighter.
A lower value makes the image darker.

NOTE

- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press **ENTER**.

Color Gamut Range (for the LE857U, LE757U, LE755U and C7500U models)

You can set the color gamut range.

Standard: Standard color gamut.
Expanded: More vivid colors with expanded color gamut.

NOTE

- "Color Gamut Range" is only available when AV MODE is set to "MOVIE" or "MOVIE (3D)".

Color Temp. (Color Temperature)

For a better white balance, use color temperature correction.

High: White with bluish tone
Mid-High:
Middle:
Mid-Low:
Low: White with reddish tone

Low (Xenon), Low (Carbon arc): Available only when AV MODE is set to "VINTAGE MOVIE" MODE. Use one of these items to make picture color become more reddish. (For the LE857U, LE757U, LE755U and C7500U models)

White balance can be adjusted between a maximum of +30 and a minimum of –30 for each color temperature.
R Gain (LO/HI)/G Gain (LO/HI)/B Gain (LO/HI)

■ **Fine tuning the color temperature**

To fine tune the color temperature, set "10 Point Setting" to "On".
You can adjust the "Position" setting. Adjust the set color temperature from +1 to +10.
White balance can be adjusted between a maximum of +30 and a minimum of –30 for each color temperature.

NOTE

- When "Position" is set to "10", you can adjust the white balance between –30 and 0.
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press **ENTER**.

Motion Enhancement

Use Motion Enhancement to view fast-action video more clearly.

Selected item	Description
AquoMotion960	Turn the LED backlight on or off for 240Hz drive display.
AquoMotion480	
240Hz	For obtaining a clearer image.
AquoMotion240	Turn the LED backlight on or off for 120Hz drive display.
120Hz High	For obtaining a clearer image.
120Hz Low	
Off	Original image.

■ **LE857U models**
AquoMotion960/240Hz/AquoMotion240/120Hz High/120Hz Low/Off

■ **LE757U and C7500U models**
AquoMotion480/AquoMotion240/120Hz High/120Hz Low/Off

■ **LE755U models**
240Hz/AquoMotion240/120Hz High/120Hz Low/Off

■ **LE657U and LE655U models**
AquoMotion240/120Hz High/120Hz Low/Off

■ **LE650U and C6500U models**
120Hz High/120Hz Low/Off

NOTE

- "Motion Enhancement" may cause image noise. If this occurs, turn the function "Off".
- When AV MODE is set to "VINTAGE MOVIE" MODE, "GAME" or "PC", or PC format is being input, "Motion Enhancement" is not available.

Game Type (for the LE857U, LE757U, LE755U and C7500U models)

You can adjust picture quality according to the type of the game you are playing.

Standard: Optimizes picture quality for standard video games.
High Motion: Optimizes picture quality for high motion video games.

NOTE

- "Game Type" is not available depending on the input signal type.

LC-80LE857U_757U_657U_E.indd 24 2013/02/21 13:36:01

Shutter Effect (for the LE857U, LE757U, LE755U and C7500U models)

Available only when AV MODE is set to "VINTAGE MOVIE" MODE. This function makes the images look like they are flickering in the same way as old-time films or TV were.

Lamp Swing Effect (for the LE857U, LE757U, LE755U and C7500U models)

Available only when AV MODE is set to "VINTAGE MOVIE" MODE. When this function is enabled, the lamp light looks like it is swinging. You can adjust the effect level between 0 and +3.

Quad Pixel Plus 2 (for the LE857U and LE757U models)

Smoothes diagonal lines by detailed dot control.

Advanced: Produces smoother diagonal lines by jaggy removal process.
Standard: Produces smooth diagonal lines.
Off: No adjustment.

NOTE

- When AV MODE is set to "VINTAGE MOVIE" MODE, "Quad Pixel Plus2" is not available.

Active Contrast

Automatically adjusts the image contrast according to the scene.

Advanced: Produces higher contrast image especially in dark scene.
Standard: Produces high contrast image.
Off: No adjustment.

Gamma Adjustment

Adjusts the differences of picture tones between bright parts and dark parts. The adjustment range of the gamma can be set to a maximum of +2 and a minimum of –2 by pressing ◀ or ▶.

Black Level

Adjusts on-screen black level to your preferred level.

High: The black level gets brighter.
Low: The black level gets darker.

NOTE

- "Black Level" is available for input signal from Composite Video, Component 480i and analog broadcasts (air and cable).

Film Mode (3:2 pull-down)

This function provides high-quality playback of images originally encoded at 24 frames/second, such as films.

Advanced: Adjusts effect to reduce judder from film contents. You can select a desired level of judder reduction from 0 to +10.
Standard: Plays back images with equal display time for each frame, reproducing movie theater experience.
Off: Normal viewing mode.

NOTE

- "Film Mode" does not function depending on input signal type.
- "Film Mode" does not function when you set AV MODE to "VINTAGE MOVIE" MODE, "GAME" or "PC".
- "Standard" does not function depending on input signal type.

Digital Noise Reduction

Produces a clearer video image.

Auto: Automatically adjusts the level of noise reduction.
High/Middle/Low: You can select a desired level for viewing a clearer video image.
Off: No adjustment.

NOTE

- "Digital Noise Reduction" is not available when you set AV MODE to "PC" or PC format is being input.
- When AV MODE is set to "GAME", "AUTO" is not available.

Monochrome

For viewing a video in monochrome.

Range of OPC

The brightness level range of the OPC sensor's automatic adjustments can be set according to your preferences.
The adjustment range of the OPC sensor can be set to a maximum of +16 and a minimum of –16.

Max.: –15 through +16
Min.: –16 through +15

NOTE

- The "Range of OPC" settings are active only when "OPC" is set to "On".
- The maximum setting cannot be set to a smaller number than the minimum setting.
- The minimum setting cannot be set to a bigger number than the maximum setting.
- Depending on the brightness of the surrounding light, the OPC sensor might not operate if the adjustment range is small.

Audio Settings

You can adjust the sound quality to your preference with the following settings.

NOTE

- For operating the on-screen display menu, see page 22.

Selected item	◀ button	▶ button
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Decrease audio from the right speaker	Decrease audio from the left speaker

NOTE

- The Audio menu is grayed out when "Output Select" is set to "Variable". (See page 27.)
- For resetting Audio adjustment items to the factory preset values, press ▲/▼ to select "Reset", press **ENTER**, press ▲/▼ to select "Yes", and then press **ENTER**.

Auto Volume

Different sound sources sometimes do not have the same loudness level, such as a program and its commercial breaks. The Automatic Volume Control (Auto Volume) reduces this problem by equalizing levels.

High: Reduces the loudness gaps among different sound sources strongly.
Middle:
Low: Reduces the loudness gaps among different sound sources slightly.

NOTE

- The Audio Settings menu is grayed out when "Output Select" is set to "Variable". (See page 27.)

3D Surround (for the LE857U, LE757U, LE755U, LE657U and LE655U models)

The surround function produces Surround effect from the speakers.

3D Stadium: Reproduces lifelike experience of excitements such that live sports or concert performances in a stadium create.
3D Hall: Reproduces concert hall experience with realistic live surround sound using measured reverberant sound in the concert hall.
3D Movie: Reproduces movie theater experience with realistic live surround sound using measured reverberant sound in the movie theater.
3D Standard: Creates 3 dimensional surround sound with detailed control of the signal phase.
Normal: Provides mild surround sound.
Off: Outputs the normal sound.

NOTE

- The Audio Settings menu is grayed out when "Output Select" is set to "Variable". (See page 27.)
- For some discs, setup may be required on your BD/DVD player. In this case, please refer to the operation manual of your BD/DVD player.

Surround (for the LE650U, C7500U and C6500U models)

The surround function produces Surround effect from the speakers.

NOTE

- The Audio Settings menu is grayed out when "Output Select" is set to "Variable". (See page 27.)
- For some discs, setup may be required on your BD/DVD player. In this case, please refer to the operation manual of your BD/DVD player.

Bass Enhancer

This function allows you to enjoy bass-enhanced sound.

NOTE

- The Audio Settings menu is grayed out when "Output Select" is set to "Variable". (See page 27.)

Clear Voice

This function emphasizes speech against background noise for greater clarity.

NOTE

- The Audio Settings menu is grayed out when "Output Select" is set to "Variable". (See page 27.)

LC-80LE857U_757U_657U_E.indd 25 2013/02/21 13:36:01

Power Control

Power control setting allows you to save energy.

NOTE

- For operating the on-screen display menu, see page 22.

Audio Only

When listening to music from a music program, you can turn the screen off and enjoy audio only.

NOTE

- The screen image will return to normal when a button (except those for audio adjustment, such as **VOL**, **MUTE**) is pressed.

Power Saving

This function allows you to set the Power Saving level in order to decrease the power consumption and increase the backlight lifespan.

Standard: Optimizes power reduction based upon video content. When set to "Standard", "" appears on the screen.

Advanced: Optimizes power reduction based upon video content and engages OPC. When set to "Advanced", "" appears on the screen.

Off: This function does not work.

NOTE

- "Power Saving" does not function when you set AV MODE to "AUTO" or "DYNAMIC (Fixed)".
- You cannot select a different Power Saving item for each AV MODE.
  When "Power Saving" is set, the "OPC" settings for all AV Modes will automatically change.
  —If you set "OPC" to "On" when "Power Saving" is set to "Standard", then the "Power Saving" setting will change to "Advanced".
  —When you change the "Power Saving" setting from "Advanced" to "Off" or to "Standard", "OPC" will be set to "Off".
  —"AUTO" and "DYNAMIC (Fixed)" will remain set to "Off".
- When "Power Saving" is set to "Standard" or "Advanced", the Power Saving leaf icon appears to the left of "OPC" in the Picture Settings menu screen.
- "Power Saving" is not available when the TV is in 3D mode. (For the LE857U, LE757U, LE755U, LE657U and LE655U models)

No Signal Off

When this function is enabled, the TV automatically shuts down if no signal is received for more than 15 minutes.

NOTE

- When it is 5 minutes before the power shuts down, the remaining time will start to keep appearing every minute.
- When a TV program finishes, this function may not operate.

No Operation Off

When you enable this function, the TV automatically shuts down if no operation is performed for more than 3 hours.

NOTE

- When it is 5 minutes before the power shuts down, the remaining time will start to keep appearing every minute.

System Options

NOTE

- For operating the on-screen display menu, see page 22.

View Option

These functions are useful for adjusting the audio and video settings. The View Option functions can be operated with the remote control unit.

APPS

The application window can be displayed by selecting "APPS" on the MENU screen.

NOTE

- You can display the application window by pressing **SmartCentral** on the remote control unit. (See page 18.)

View Mode

This function changes the screen size.
Select "View Option" on the menu to display the View Mode menu screen.
The View Mode menu varies depending on the input source.

NOTE

- You can select View Mode by pressing **VIEW MODE** on the remote control unit.
  — See pages 20 and 21 for adjusting the video being input from a TV, other audiovisual equipment, USB-Video, DLNA-Video or Internet applications.
  — See page 21 for adjusting the video being input from a PC.

Freeze

Allows you to capture and freeze a moving image that you are watching.

NOTE

- You can select Freeze by pressing **FREEZE** on the remote control unit. See page 18 for details of Freeze function.

Change Audio

Allows you to change the audio when multiple audio is available for the program you are watching.

NOTE

- You can change Audio by pressing **AUDIO** on the remote control unit. See page 19 for details of Audio function.

Change CC

Allows you to change the Closed Caption display. Select "Change CC" on the menu to display the Closed Caption information.

- The information displayed varies depending on the program you are watching.

NOTE

- You can change Closed Caption by pressing **CC** on the remote control unit. See page 20 for details of Closed Caption function.

Terminal Setting

Audio Setup

You can output digital audio to an AV amplifier or similar device whose DIGITAL AUDIO INPUT terminal is connected to the DIGITAL AUDIO OUT terminal on the TV. Please select an audio output format compatible with the audio format of the program you are watching and the equipment connected.

PCM: For connecting to equipment that does not support Dolby Digital and DTS. The same audio (main, sub, or main/sub) as the audio of the program being viewed is output.
2-channel audio with a sampling rate of 48 kHz or less is output as linear PCM audio.

Bitstream: For connecting to an audio system that supports Dolby Digital and DTS. Audio is output through both the main and sub channels.

NOTE

- Analog channel audio and video input audio are output in PCM mode even when "Bitstream" is selected.
- PCM digital input signals are output in PCM mode even when "Bitstream" is selected.

Input Skip

This setting allows you to skip the TV, HDMI or PC IN Input ("TV", "PC IN", "HDMI 1", "HDMI 2", "HDMI 3" and "HDMI 4") on the Input Selection operation.

NOTE

- If you connect external equipment to an HDMI IN terminal which you have set to be skipped, a notification message appears on the display when a signal is received from the connected external equipment. Press "Yes" to reset the related skipping setting so that the input terminal becomes available.

LC-80LE857U_757U_657U_E.indd 26 2013/02/21 13:36:01

Input Label

Lets you set the input terminal displayed when using the INPUT list or channel display. Press ▲/▼/◀/▶ to select the new name for the input mode.

- Using the software keyboard, you can enter up to 10 characters for text. (See page 47.)

NOTE

- You cannot change labels if the input source is TV, Home Network (DLNA) or USB.

HDMI Setup - Auto View

When you view images sent from external equipment in an HDMI connection, this function allows the image size on the TV to automatically switch to an appropriate one.

NOTE

- Refer to your external equipment operation manual for the signal type.
- When connecting a DVI-HDMI conversion adapter/cable to the HDMI IN terminal, the image may not come in clearly.

Output Select

Allows you to select what controls the audio output.

Fixed: Sound via speaker is adjusted with **VOL +/–** on the remote control unit or on the TV.
Sound via the AUDIO OUT terminal is not adjustable and outputs at a consistent level.

Variable: Sound via the AUDIO OUT terminal is adjusted with **VOL +/–** on the remote control unit or on the TV.
Sound via speaker is muted.

Color System

Select the video signal system compatible with your equipment from the list below:

Auto/NTSC/PAL-M/PAL-N

NOTE

- "Color System" can only be set for the VIDEO IN 1 or 2.
- If you have already set the Secret No., input the 4-digit secret number here. See page 29 for setting a secret number.

Menu Design

Channel Selecting Effect

You can select whether to use transition effects when changing channels.

NOTE

- In some cases, "Channel Selecting Effect" does not work.

Program Title Display

Select the CH display when changing channels for digital broadcasting.

Position

For adjusting a picture's horizontal and vertical position.

H-Pos.: Centers the image by moving it to the left or right.

V-Pos.: Centers the image by moving it up or down.

NOTE

- For resetting adjustments to the factory preset values, press ▲/▼ to select "Reset", and then press **ENTER**.
- When connecting a PC to the HDMI IN terminal, the image position will be automatically adjusted. It cannot be manually adjusted.
- The screen position variable ranges depend on the View Mode or the signal type. The ranges can be seen on the position-setting screen.
- Adjustments are stored separately according to input source.
- "Position" does not work when USB mode, Home Network (DLNA) mode or an Internet application is used.
- You may not be able to adjust the position while in 3D mode. (For the LE857U, LE757U, LE755U, LE657U and LE655U models)

Caption Setup

This function allows you to adjust the closed caption screen appearance to suit your preference.

Caption Size/Font Style/Foreground Color/Foreground Opacity/Background Color/Background Opacity/Character Edge

NOTE

- For resetting adjustments to the factory preset values, press ▲/▼ to select "Reset", and then press **ENTER**.
- The default value depends on the broadcasting station.

Game Play Time

This function will enable the TV to display the elapsed time every 30 minutes, so that you do not become too absorbed in game playing to keep track of time. Switch AV MODE to "GAME" to activate the function.

Operation Lock Out

This function locks the operation buttons on the TV and the remote control.

Off: No adjustment.

RC Control Lock: All buttons on the remote control are locked.

Button Control Lock: All buttons on the TV, except **POWER**, are locked.

When "RC Control Lock" or "Button Control Lock" is selected, a confirmation screen appears.

Yes: Locks the operation buttons.

No: No adjustment.

NOTE

- To unlock the buttons on the remote control by using the control panel of the TV (see page 22):
  ① Press **MENU** to display the MENU screen, press **VOL +/–** to select "System Options", and then press **INPUT**.
  ② Press **CH** ∧/∨ to select "Operation Lock Out", and then press **INPUT**.
  ③ Press **CH** ∧/∨ to select "Off", and then press **INPUT**.
  ④ Press **MENU** to exit.
- To unlock the buttons on the TV, press **MENU** on the remote control, and then select "Off" in "Operation Lock Out".

Icon Light Up Setting

When this function is set to "On", the LED on the front of the TV turns on.

■ **LE857U, LE757U, LE755U, LE657U and LE655U models**

- The LED lights white in 2D mode.
- The LED lights blue in 3D mode.

NOTE

- "On" is the factory preset value. If you want to turn off the LED, set the function to "Off".

Quick Start Mode

When this function is activated, you can reduce the TV's start-up time or even let the TV in standby mode start displaying images and so on via the connected equipment on the network.

NOTE

- Setting "Quick Start Mode" to "On" consumes more power.

Wallpaper Setting

This function is available only when "Quick Start Mode" is set to "On (Wallpaper Mode)".
Activating the function will display still images when the TV is in standby mode.

Data Source

For the wallpaper, you can select either the still images pre-installed in the TV or your favorite still images stored in the USB memory device.

Pre-Installed: The images pre-installed in the TV will be displayed in a slideshow.

USB: Your favorite images stored for the wallpaper will appear.
If only a single still image is stored in the USB memory device, that image will be displayed as the wallpaper. When there are multiple still images in the memory, all the images will be displayed in a slideshow.

NOTE

- Images are displayed in 3-minute intervals as a slideshow.
- When the TV is in Wallpaper mode, you can turn off the TV by pressing and holding **POWER** on the TV for 5 seconds.
  - Just before the TV turns off, the last image shown when the TV was turned off appears briefly.
  - Your settings may not be saved in some cases.

■ **When you display images by using the USB memory device:**

- Create a folder named "WP" in the root directory of the USB memory device (the first directory when the USB memory device is opened), and store into the folder the still images you want to display for the wallpaper.
- You must insert the USB memory device into the USB terminal before turning off the TV.
- If there are images on the USB memory device but they do not appear on the screen, switch to USB mode and check whether the image files on the USB memory device are shown correctly.

Timer Setting

You can set the length of time the TV will remain in the Wallpaper Mode.

3 hours/6 hours/12 hours/24 hours

NOTE

- No buttons except for **POWER** work even while the still images are being displayed.
- If the ready-for-use USB memory device is not inserted, the still images pre-installed in the TV will be displayed in a slideshow even when "Data Source" is set to "USB".
- Because the USB memory device cannot be detected immediately after the TV is turned on from standby mode, the wallpaper pre-installed in the TV may be displayed even when "Data Source" is set to "USB".
- The still images will be displayed until the set time has elapsed.
- If you do not want to use the wallpaper as described above, set "Quick Start Mode" to "On" or "Off".

LC-80LE857U_757U_657U_E.indd 27 2013/02/21 16:54:37

Boot Picture

With this function activated, the SHARP logo will be displayed when you turn on the TV.

NOTE

- This function is not available when the TV is set to "Quick Start Mode".

Response Tone
(For the LE857U, LE757U, LE755U and C7500U models)

With this item set to "On", the TV will give off operation sound when you use the SmartCentral function.

NOTE

- If an external speaker is used, the operation sound will not be heard.

Demo Mode

You can select the image from several types of demo mode.

If you have selected "Auto Play", you need to select the desired playback type(s), and then set the playback time.

Continuous: Plays demos continuously.
10 min.: Plays demos every 10 minutes.
20 min.: Plays demos every 20 minutes.

NOTE

- What kinds of setting item are available depends on the model of your TV.
- This function will be canceled when you press **EXIT** on the remote control unit.
- "Demo Mode" may not be selected depending on input signal type or application status.
- "Demo Mode" may be automatically canceled depending on input signal type.

Initial Setup

NOTE

- For operating the on-screen display menu, see page 22.
- When you select "EZ Setup", "CH Setup", "Parental CTRL" or "Reset", you can enter the 4-digit secret number here. See page 29 for setting a secret number.

EZ Setup

You can run EZ Setup again, even after setting up the preset channels.

Language: Select from among 3 languages (English, French and Spanish).
Location & Time: Make settings for the country, area and time zone where you use the TV.
Select your country: Select either "United States", "Canada" or "Mexico".
Select your time zone: Select your time zone. The available settings differ depending on the selected country.
Select DST (Daylight Savings Time): Select "Auto", "Manual" or "Off".
TV Location: Select "Home" or "Store" for the location where you plan to install the TV. This product qualifies for ENERGY STAR*1 in Home mode default setting.
Home: "Power Saving" is set to "Advanced", and AV MODE is set to "STANDARD (ENERGY STAR)"*1.
Store: "Power Saving" is set to "Off" and AV MODE is set to "DYNAMIC (Fixed)". Picture Reset and Feature Demo can be set.
Picture Reset: AV MODE will be set to "DYNAMIC (Fixed)" regardless of whether Picture Reset is "On" or "Off". If you select "On", AV MODE will be reset to "DYNAMIC (Fixed)" if there is no operation for 30 minutes. When "Off" is selected, AV MODE will be set to "DYNAMIC (Fixed)".
Feature Demo: When "On" is selected, after all the settings are completed, the Feature Demo screen is displayed if there is no operation for several minutes.
- ENERGY STAR qualification is based on AV MODE "STANDARD (ENERGY STAR)".*1

Antenna & Cable/STB: Select the type of connection you will use to watch TV.
Air/Cable: Make sure what kind of connection is made with your TV when selecting "Air" or "Cable".
CH Search: Channel auto search makes the TV look for all channels viewable in the set area.
- If "Cable" is selected for Antenna setting, scrambled channels are removed after the Channel search has been completed.

Network: When you connect to the Internet on the TV, confirm the connection method and make adjustments.
- Wireless LAN connection is possible only when the WPS (push button) method is used. If any other method is used, make settings by Initial Setup > Internet Setup > Network Setup. (See pages 46 to 47.)

Completed: The settings confirmation screen is displayed. Confirm the information displayed on the screen.

NOTE

- *1: Except for LC-90LE657U
- See Initial Installation on pages 16 to 17 for setting each item.
- If no channel is found, confirm the type of connection made with your TV and try "EZ Setup" again.
- If you select "Analog Search Start" and initiate the channel search, the CH Memory for Cable Digital will be deleted.

Broadcasting Setup

CH Setup

If Initial Installation does not memorize all the channels in your region, follow the instructions below to manually memorize the channels.

Air/Cable: Make sure what kind of connection is made with your TV when selecting "Air" or "Cable".
CH Search: Channel auto search makes the TV look for all channels viewable in the set area.
CH Memory: You can select the channels to skip in each ANALOG (Air), ANALOG (Cable), DIGITAL (Air) and DIGITAL (Cable).
On: Skips channels. (Channel selection disabled using **CH** ∧/∨.)
Off: Does not skip channels. (Channel selection enabled using **CH**∧/∨.)
Remove Scrambled CH: This function makes the TV look for and then delete digital cable channels that are scrambled and so unavailable in the set area. The process may take more than 20 minutes.
Yes: Starts to remove scrambled channels.
No: This function does not work.

NOTE

- See Initial Installation on pages 16 to 17 for setting each item.
- If no channel is found, confirm the type of connection made with your TV and try channel search again.
- If you select "Analog Search Start" and initiate the channel search, the CH Memory for Cable Digital will be deleted.

Favorite CH (Favorite Channel Setting)

This function allows you to program 4 favorite channels, in 4 different categories. By setting the favorite channels in advance, you can select your favorite channels easily.

To register your favorite channel:
Select "Register" and then press **ENTER**. Press ▲/▼/◀/▶ to select the position in the category, and then press **ENTER** to register.

To delete your favorite channel:
Select "1 Data Clear" and then press **ENTER**. Press ▲/▼/◀/▶ to select the channel you want to delete, and then press **ENTER**. Select "Yes" and then press **ENTER**.
To delete all the favorite channels, select "All Data Clear".

NOTE

- Before setting the channel, select the channel you want to register as a favorite channel.
- You can display the "Favorite CH" screen by pressing **FAVORITE CH** on the remote control.

Antenna Setup-DIGITAL

In order to receive digital air broadcasts, you need a digital broadcast antenna. You can confirm the antenna configuration through the "Antenna Setup-DIGITAL" screen. If necessary, adjust the direction of the antenna to obtain the maximum signal strength.

Signal Strength: The signal strength of DIGITAL channel is displayed. The signal information is based on the current channel.
Channel Strength: Input the 2-digit channel number to check the signal strength of the selected channel. Make sure the signal is strong enough for each channel.
- This function is available for DIGITAL (Air) only.

LC-80LE857U_757U_657U_E.indd 28 2013/02/23 16:35:13

Bluetooth Setup (for the LE857U, LE757U, LE755U, LE657U and LE655U models)

Set this function when using the bluetooth devices with your TV.
See page 49 for how to use the devices.

NOTE

- When you use the Bluetooth device with your TV for the first time, you must make pairing between the device and the TV. Once the pairing is correctly carried out, the Bluetooth device will be registered on the TV.

Keyboard Setting/Mouse Setting

You can add, delete or select Bluetooth devices in the registration.

■ Addition of a Bluetooth Device

Before making the settings, press the Connect button on the Bluetooth device you want to connect.

1 Press ◀/▶ to select "Search", and then press **ENTER**.

2 Model names of the detected devices will be displayed. Select the device with the message "New" attached, and then press **ENTER**.
- When a keyboard is being paired with the TV, a PIN code will be displayed. Enter the PIN code using the keyboard, and then press "Enter" key on the keyboard.
- When you perform pairing operation on a mouse, select "Yes", and then press **ENTER**.

3 After the message indicating the pairing is complete has been displayed, click "OK".

■ Deletion of a Bluetooth Device

1 Press ▲/▼ to select the device to delete, and then press **ENTER**.

2 Press ▲/▼ to select "Delete", and then press **ENTER**.

■ Selection of a Bluetooth Device

1 Press ▲/▼ to select the device to use, and then press **ENTER**.

2 Press ▲/▼ to select "Select", and then press **ENTER**.

NOTE

- See also the instruction manual supplied with the Bluetooth device.
- You can register up to 6 devices to the TV, but only one keyboard and mouse can be used at a time.
- If a device for which "Selected" is displayed does not operate properly, try searching and selecting the device again.
- The keyboard or mouse may not operate properly depending on the application being used.
- The Bluetooth device may not operate properly depending on the device being used.

Language

You can also select a language from the Initial Setup menu. Select from among 3 languages: English, French and Spanish.

Wall Mount Audio Setup

This selects the optimal audio for the program you are currently watching even when the TV is mounted to a wall.

Reset

If complex adjustments are made and the settings cannot be restored to normal, you can reset the settings to the factory preset values.
- If you have already set the Secret No., input the 4-digit secret number here.

NOTE

- The Channel Setup settings will not be changed.
- The Language settings will not be changed.
- The Secret number settings will not be changed.
- The TV Location settings will not be changed.

Individual Setup

Secret No.

Allows you to use a secret number to protect certain settings from being accidentally changed.

IMPORTANT:

Three conditions must be met to enable the V-Chip (see pages 29 to 30):

1. Secret No. is registered.
2. V-Chip/V-Chip (DTV Only) settings have been made.
   - The "V-Chip (DTV Only)" will only be selectable when a new rating system can be downloaded via digital broadcasting in the U.S.
3. "Status" is set to "On".

■ Setting Secret No.

You can set and change the secret number by using **0-9**.

Yes: Changes or sets the Secret No.

No: The confirmation screen to clear the Secret No. appears when the Secret No. has been set. When the Secret No. has not been set, the previous screen will be displayed.

■ Secret No. Clear

You can clear your secret number.

Yes: Your secret number is cleared.

No: Your secret number is not cleared.

NOTE

- As a precautionary measure, make a note of your secret number and keep it in a familiar place.
- If the secret number is cleared, the Status setting automatically sets to "Off". "V-Chip" and "Status" will not be selectable from the menu.

Parental CTRL (Parental Control Setting)

Status

Used to enable or disable the parental control function. This function will not be selectable from the menu if you do not first configure your secret number.

V-Chip

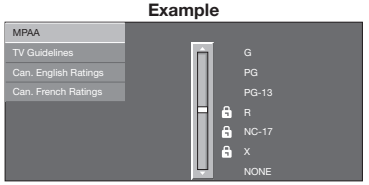
V-CHIP is an electronic filtering device built into your TV. This tool gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once you activate the V-CHIP feature in your TV. "V-Chip" and "Status" will not be selectable from the menu if you do not first configure your secret number.
- The U.S. has two rating systems for viewing content: TV Parental Guidelines and movie ratings.
- The TV Parental Guidelines work in conjunction with the V-CHIP to help parents screen out inappropriate television shows from their children.
- Movie ratings are used for original movies rated by the Motion Picture Association of America (MPAA) as watched on cable TV and not edited for television. The V-CHIP can also be set to block MPAA-rated movies.

NOTE

- The setting automatically enters "Block" for any ratings below your selection.
- If Status is not set to "On", the configuration settings will not work.

■ MPAA (Voluntary movie rating system)

Example



Press ▲/▼ to adjust the item to your desired position.

"🔒" indicates the item is blocked. Press **MENU** to exit.

G: General audiences. All ages admitted.
PG: Parental guidance suggested. Some material may not be suitable for children.
PG-13: Parents strongly cautioned. Some material may be inappropriate for children under 13.
R: Restricted. Under 17 requires accompanying parent or adult guardian (age varies in some jurisdictions).
NC-17: No one 17 and under admitted.
X: X is an older rating that is unified with NC-17 but may be encoded in the data of older movies.

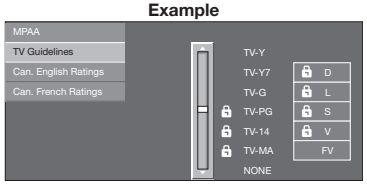
NOTE

- Voluntary movie rating system only uses an age-based rating.

LC-80LE857U_757U_657U_E.indd 29 2013/02/21 13:36:01

■ TV Parental Guidelines

Example



Suggested age
TV-Y: All children.
TV-Y7: Directed to older children.
TV-G: General audience.
TV-PG: Parental Guidance suggested.
TV-14: Parents strongly cautioned.
TV-MA: Mature audience only.

When setting an individual content-based rating item:

1 Press ▶ or **ENTER** to access blocked content items from the currently selected age-based rating item.

2 Press ▲/▼ to select an individual item, and then press **ENTER** to unblock it ("🔒" is removed). Repeat the same steps for the other items.

3 Press ◀ or **RETURN** to register after all individual content rating items are set.

Content
FV: Fantasy violence.
V: Violence.
S: Sexual situation.
L: Adult language.
D: Sexually suggestive dialog.

Rating		Content				
		FV	V	S	L	D
Suggested age	TV-Y	☒	☒	☒	☒	☒
	TV-Y7	✕	☒	☒	☒	☒
	TV-G		☒	☒	☒	☒
	TV-PG		✕	✕	✕	✕
	TV-14		✕	✕	✕	✕
	TV-MA		✕	✕	✕	

☒ : The content rating can be set, but this rating is not normally broadcast by TV stations.
✕ : Content rating can be set.

Canadian Rating Systems (Canadian English ratings and Canadian French ratings)

- The TV rating systems in Canada are based on the Canadian Radio-Television and Telecommunications Commission (CRTC) policy on violence in television programming.
- While violence is the most important content element to be rated, the structure developed takes into consideration other program content like language, nudity, sexuality and mature themes.
- When setting the V-CHIP on the Canadian system you can choose either the Canadian English ratings or the Canadian French ratings.

■ Canadian English Ratings

E: Exempt: Includes news, sports, documentaries and other information programming; talk shows, music videos, and variety programming.
C: Children: Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and well-being.
C8+: Children over 8 years old: Contains no portrayal of violence as the preferred, acceptable, or only way to resolve conflict; nor encourage children to imitate dangerous acts which they may see on the screen.
G: General: Considered acceptable for all age groups. Appropriate viewing for the entire family, contains very little violence, physical, verbal or emotional.
PG: Parental Guidance: Intended for a general audience, but may not be suitable for younger children (under the age of 8) because it could contain controversial themes or issues.
14+: Over 14 years: Could contain themes where violence is one of the dominant elements of the storyline, but it must be integral to the development of plot or character. Language usage could be profane and nudity present within the context of the theme.
18+: Adults: Intended for viewers 18 years and older and might contain depictions of violence, which while related to the development of plot, character or themes, are intended for adult viewing. Could contain graphic language and portrayals of sex and nudity.

■ Canadian French Ratings

E: Exempt programming.
G: General: All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.
8ans+: General but inadvisable for young children: May be viewed by a wide public audience, but could contain scenes disturbing to children under 8 who cannot distinguish between imaginary and real situations.
Recommended for viewing with parent.
13ans+: Over 13 years: Could contain scenes of frequent violent scenes and therefore recommended for viewing with parent.
16ans+: Over 16 years: Could contain frequent violent scenes and intense violence.
18ans+: Over 18 years: Only for adult viewing. Could contain frequent violent scenes and extreme violence.

■ How to temporarily release the V-CHIP BLOCK

When the V-CHIP BLOCK is working and censors a broadcast, "V-CHIP HAS BEEN ACTIVATED." displays.

1 Press **ENTER** while the V-CHIP is working, and then the secret number setting menu displays.

2 Input the 4-digit secret number by using **0–9**. At this time V-CHIP BLOCK temporarily releases.

■ Reactivating the temporarily released V-CHIP BLOCK

You can reactivate the temporarily released V-CHIP BLOCK as shown below.

- Select "Status" setting from the Parental CTRL menu to reactivate BLOCK. (See page 29.)
- Select "V-Chip" setting ("MPAA", "TV Guidelines", "Can. English Ratings" or "Can. French Ratings") from the Parental CTRL to reactivate BLOCK. (See pages 29 to 30.)
- Switch off the TV power.

NOTE

- Performing any of the three above will activate the V-CHIP BLOCK.

Information

NOTE

- For operating the on-screen display menu, see page 22.

Identification

The current version of the TV software is displayed.

Digital Caption Info. (Digital Caption Information)

This function allows viewing of digital closed caption information for the digital broadcast program being viewed.

NOTE

- This list is not displayed for analog broadcasts or external input audio/video.
- This information is not included in CC1, CC2, Text1, or Text2, and is not displayed in a list.

Software Update

This is used to upgrade the system software to enhance the TV functions.

1 Press **MENU** to display the MENU screen, and then press ◀/▶ to select "Information".

2 Press ▲/▼ to select "Software Update", and then press **ENTER**.
- If you have already set the Secret No., go to step 3.

3 Input the 4-digit secret number by using **0**-**9**.

4 Press ▲/▼ to select "Manual Update" or "Auto Update Setting", and then press **ENTER**.
- The operations thereafter vary depending on the setting.

Auto Update Setting

When the TV is on, or when an Internet application is being accessed, this function enables the TV to connect to the network and check for updates automatically.
When an update is available, a message is displayed. Press ◀/▶ to select "Yes", and then press **ENTER** to display the download screen. (See page 32.)

NOTE

- This function does not work when a broadband connection or Internet Setup is not available.
- A message may also be displayed when an application is running.The message varies depending on the application.

LC-80LE857U_757U_657U_E.indd 30 2013/02/21 13:36:01

Manual Update

Select the method for manually updating the software.

USB Update: Updates the software using a USB memory device containing the update file. (See "Updating the Software with a USB Memory Device".)

Network Update: Downloads the update file via the network and then updates the software. (See page 32.)

NOTE

- A broadband connection and Internet Setup are required to update the software using the network. (See pages 46 to 47.)
- It may take time to access and download the update depending on the Internet connection and other factors.

■ Updating the Software with a USB Memory Device

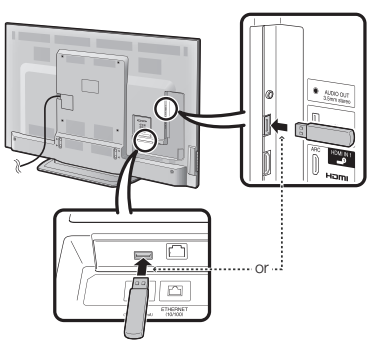
To check for the availability of a software update, visit http://www.sharpusa.com/products/support/. If you have any questions, please call 1-800-BE-SHARP (800-237-4277).

CAUTION

- **Do not remove the USB memory device or unplug the AC cord while the software is being updated.**
- **Be sure to properly follow the whole procedure described below, step by step. Otherwise, for example, the TV cannot read the data in the USB memory device and software updating will fail.**

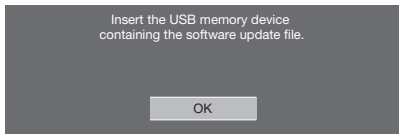
1 Insert the USB memory device with the update file into the USB 1 or USB 2 terminal on the TV.

- When you update the software, use only one USB terminal. Either USB 1 or USB 2 is usable.

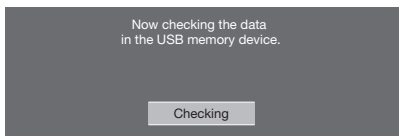


2 Press ▲/▼ on the Manual Update screen to select "USB Update", and then press **ENTER**.

3 Press **ENTER** to start checking the data in the USB memory device.

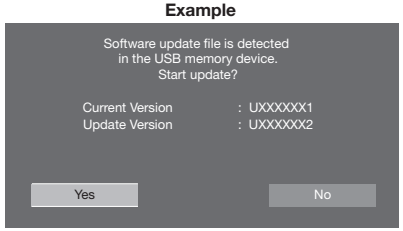


4 During the data checking, "Checking" blinks.



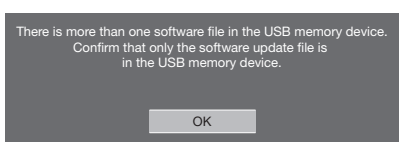
- The current version of the TV software and the version of the update file on the USB memory device are displayed.

Example

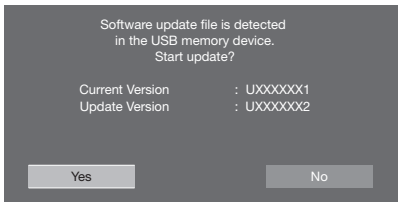


- If the USB memory device is not properly installed or the correct update file cannot be found on the USB memory device, an error message is displayed.
  Check the file on the USB memory device, and then reinsert the USB memory device correctly.

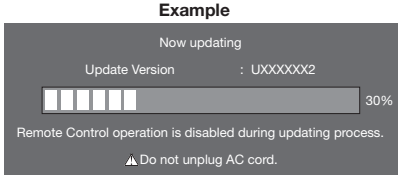
Software update file is not detected in the USB memory device.
Confirm that you have transferred the file
to the USB memory device and retry software update.
OK


There is more than one software file in the USB memory device.
Confirm that only the software update file is
in the USB memory device.
OK

5 To update the TV software with the update file, select "Yes", and then press **ENTER**.



Example

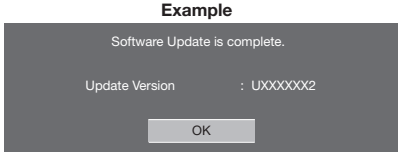

Now updating
Update Version : UXXXXXX2
30%
Remote Control operation is disabled during updating process.
Do not unplug AC cord.

CAUTION

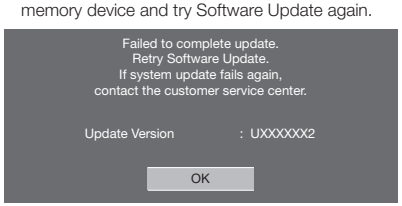
- **Do not remove the USB memory device or unplug the AC cord while the software is being updated.**

6 When the software is successfully updated, a screen is displayed indicating that the update process is completed.
After this screen is displayed, the TV automatically turns off and then turns on again.

Example



- If the update has failed, check the file in the USB memory device and try Software Update again.



7 After the screen shown below is displayed, press **ENTER**.

8 Remove the USB memory device.

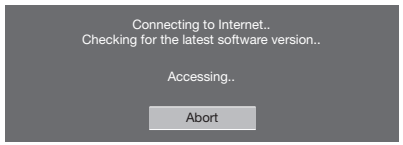
LC-80LE857U_757U_657U_E.indd 31 2013/02/21 13:36:02

On-Screen Display Menu

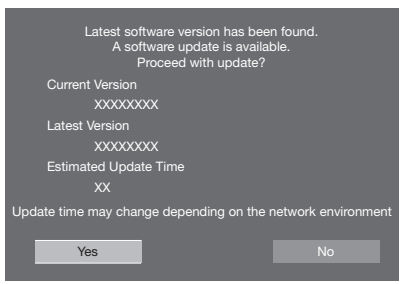
■ Updating the Software via the Network

1 Press ▲/▼ on the Manual Update screen to select "Network Update", and then press **ENTER**.

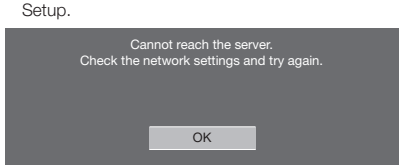
- The TV connects to the network and checks for updates.
- To cancel, press **ENTER**.

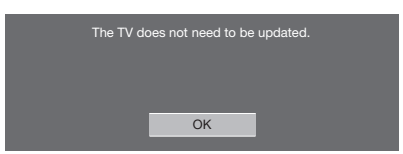


2 The current version of the TV and the latest version of software are displayed. To update the TV software, select "Yes", and then press **ENTER**.

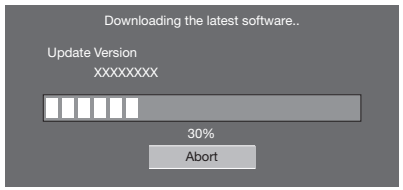


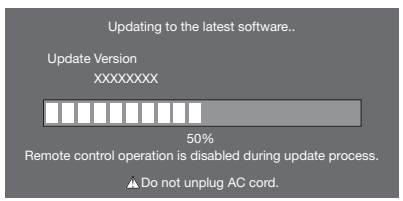
- When a server connection cannot be established or an update is not available, a message is displayed.
  If a server connection cannot be established, check the broadband connection and Internet Setup.





3 After the update file is downloaded, the software update process begins.

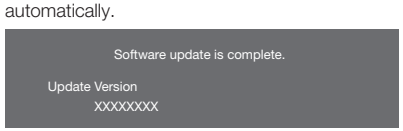




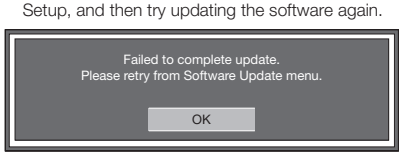
CAUTION

- **Do not unplug the AC cord while the software is being updated.**

4 When the software is successfully updated, a screen is displayed indicating that the update process is completed.
A screen indicating that the update is completed is displayed. 4 seconds later, the TV restarts automatically.



- If the software was not updated successfully, check the broadband connection and Internet Setup, and then try updating the software again.



Enjoying 3D Image Viewing (for the LE857U, LE757U, LE755U, LE657U and LE655U models)

You can use special 3D Glasses to watch 3D-supported images on this TV.

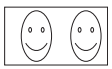
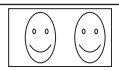
- You can enjoy 3D movies on this TV by viewing the movie through SHARP 3D Glasses supplied with the TV or through optional 3D Glasses sold separately.
- To produce 3D images, liquid crystal shutters in the 3D Glasses alternately open and close imperceptibly fast to exactly match alternating left and right video images displayed by the TV.
- Not all consumers can experience and enjoy 3DTV. Some people suffer from stereo blindness which prevents them from perceiving the intended depth of 3D entertainment. Also, some people who watch 3D programming may experience initial feelings of motion sickness as they adjust to the picture. Others may experience headaches, eye fatigue or motion sickness. Some viewers might also experience epileptic seizures. Like a roller coaster, the experience is not for everyone.

CAUTION

- **The 3D Glasses are precision equipment. Handle them with care.**
- **Improper use of the 3D Glasses or failure to follow these instructions can result in eye strain.**
- **If you experience dizziness, nausea, or other discomfort while viewing 3D images, immediately discontinue use of the 3D Glasses. Using the 3DTV with incompatible 3D broadcasts or software can make images appear blurry or create overlapping images.**
- **When viewing 3D images continuously, be sure to take a break periodically to prevent eye strain.**
- **If you are nearsighted or farsighted or have astigmatism or a different level of eyesight between the left and right eyes, you should take the necessary steps, such as wearing eyeglasses, to correct your eyesight before viewing 3D images. The 3D Glasses can be worn over eyeglasses.**
- **When viewing 3D images, keep the 3D Glasses horizontally level with the TV screen. If you tilt the 3D Glasses with respect to the TV screen, the images viewed by the left and right eyes may appear significantly different or images may appear overlapping.**
- **View 3D images at the appropriate distance from the TV screen. The recommended distance is three times the effective height of the TV screen.**
  Examples of recommended distances
  90-inch screen: Approx. 11.2 ft (3.4 m)
  80-inch screen: Approx. 9.8 ft (3.0 m)
  70-inch screen: Approx. 8.5 ft (2.6 m)
  60-inch screen: Approx. 7.2 ft (2.2 m)
  Viewing should not be done closer than the recommended distance.
- **Be careful of your surroundings when viewing 3D images. When you view 3D images, objects may appear closer or farther than they are. This may cause you to misjudge the distance and possibly result in injury if you accidentally hit the screen or surrounding objects.**
- **The 3D Glasses are not recommended for people aged less than 6.**
- **When children are viewing 3D images, be sure a parent or guardian is present. Monitor children viewing 3D images, and if they show signs of discomfort, immediately discontinue use of the 3D Glasses.**
- **People with a known history of photosensitivity and people with heart problems or poor health should not use the 3D Glasses. This can worsen existing health conditions.**
- **Do not use the 3D Glasses for other purposes (such as general eyeglasses, sunglasses, or protective goggles).**
- **Do not use the 3D function or 3D Glasses while walking or moving around. This may result in injuries due to running into objects, tripping, and/or falling.**
- **When using the 3D Glasses, take care not to accidentally strike the TV screen or other people. Viewing 3D images may cause you to misjudge the distance to the TV screen and accidentally strike the screen, resulting in possible injury.**
- **It is recommended that you do not view 3D images if you are sleep deprived or if you have been drinking alcohol.**

LC-80LE857U_757U_657U_E.indd 32 2013/02/26 18:06:09

Display Methods for 3D and 2D Images

	Display method	Example display	Description
3D mode (using the 3D Glasses)	2D → 3D		• Converts normal 2D images into 3D images.
	Side by Side		• Creates 3D images from 3D images displayed side by side. The image is split into a left and right image, and then the images are stretched and displayed sequentially to create a 3D image.
	Top and Bottom		• Creates 3D images from 3D images displayed on the top and bottom. The image is split into a top and bottom image, and then the images are stretched and displayed sequentially to create a 3D image.
2D mode (without using the 3D Glasses)	Side by Side → 2D		• Creates 2D images from 3D images displayed side by side. Only the left image is stretched and displayed. The image does not appear in 3D.
	Top and Bottom → 2D		• Creates 2D images from 3D images displayed on the top and bottom. Only the top image is stretched and displayed. The image does not appear in 3D.

Viewing 3D Images

NOTE

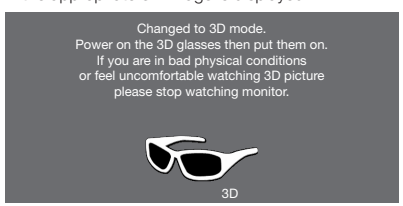
- The TV screen may temporarily become black when the TV is trying to detect a 3D image signal and when switching from 3D to 2D mode.

Receiving a 3D Image Signal That Can Be Detected Automatically

The image signal may contain a 3D identification signal. You can enable the TV to automatically detect the 3D image type by selecting "System Options" > "3D Setup" > "3D Auto Change" on the TV. (See page 34.)

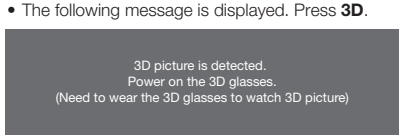
1 When "3D Auto Change" is set to "Mode 1" or "Mode 2"

- The 3D image type is detected automatically and the appropriate 3D image is displayed.


Changed to 3D mode.
Power on the 3D glasses then put them on.
If you are in bad physical conditions
or feel uncomfortable watching 3D picture
please stop watching monitor.
3D

When "3D Auto Change" is set to "Off"

- The following message is displayed. Press **3D**.



- Press ◀/▶ to select the "Yes", and then press **ENTER**.

2 Turn on the 3D Glasses and place them on your head.

3 You can now view 3D images.

Switching from 3D to 2D Mode

4 Press **3D** during the 3D mode.
Select "Yes" and press **ENTER** to switch to 2D mode.

- Take off the 3D Glasses and turn off the power.

Ending 3D Image Viewing

5 Take off the 3D Glasses and turn off the power.

NOTE

- If the input signal switches to 2D, 2D images are displayed automatically.
- 3D mode is canceled automatically when the setting is changed, input selection is changed, or the power is turned off.

Receiving a 3D Image Signal That Cannot Be Detected Automatically

1 Press **3D**.

- A screen appears prompting you to select between 3D and 2D image viewing.

2 Press ◀/▶ to select "3D" or "2D", and then press **ENTER**.

- **To view in 3D mode:** Select "3D", and then go to step 3.
- **To view in 2D mode:** Select "2D", and then go to step 6.

3 Press ◀/▶ to select the 3D signal type ("2D→3D", "Side by Side" or "Top and Bottom") and then press **ENTER**.

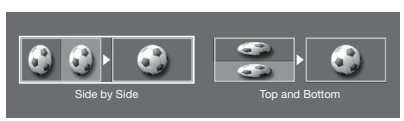
- If you select the same system as that of the input signal, 3D images are displayed.

4 Turn on the 3D Glasses and place them on your head.

5 You can now view 3D images.

Switching from 3D to 2D Mode

6 Press ◀/▶ to select the 2D signal type ("Side by Side" or "Top and Bottom") and then press **ENTER**.



- If you select the same system as that of the input signal, 2D images are displayed.
- Take off the 3D Glasses and turn off the power.

Ending 3D Image Viewing

7 Take off the 3D Glasses and turn off the power.

LC-80LE857U_757U_657U_E.indd 33 2013/02/21 13:36:02

Watching 2D Images in 3D

You can convert normal 2D images into 3D images.

1 Press **3D**.
2 Press ◀/▶ to select "2D→3D", and then press **ENTER**.
3 Turn on the 3D Glasses and place them on your head.

NOTE

- The TV returns to 2D mode after 1 hour has passed.

Switching to the Previous Mode

You can switch back to the previous mode by pressing **3D**.

1 Press **3D**.
  - A confirmation screen is displayed.
2 Select "Yes" and then press **ENTER**.
  - The TV returns to the previous mode.

3D Menu

Pressing **3D** in 3D mode displays the 3D menu. Press the colored buttons to make the necessary settings.

A: 3D Brightness Boost (for the LE857U, LE757U and LE755U models)
B: 3D Surround (See page 25.) The surround mode changes each time you press **B**.
C: 2D→3D Convert Effect
D: 3D Setup

Configuring the TV Settings to Enhance 3D Image Viewing

You can adjust the 3D image to the desired image quality and make various settings for 3D image viewing.

- Set AV MODE and "3D Brightness Boost" with "Picture Settings".
- Set the 3D viewing settings with "System Options" > "3D Setup".

NOTE

- Which items can be selected/adjusted differs depending on whether the TV is in 2D mode or in 3D mode.

AV MODE

The audio and video settings can be changed to suit the program or input content being watched.

STANDARD(3D): For a highly defined image in a normal lighting.
MOVIE(3D): For a movie.
GAME(3D): Lowers image brightness for easier viewing.

NOTE

- You can select AV MODE by pressing **AV MODE** on the remote control unit.

3D Brightness Boost (for the LE857U, LE757U and LE755U models)

You can adjust the backlight of the TV for 3D image viewing.

High/Middle/Low: Select a desired level of 3D Brightness Boost.

NOTE

- When "High" or "Low" is selected, "OPC", "Backlight" and "Range of OPC" are not available.

3D Setup

You can make various settings to enhance 3D image viewing.

3D Auto Change

This setting can be used to switch to 3D mode automatically when a 3D identification signal is detected.
Set the desired mode according to the type of media you are viewing, such as video from a connected device or video from an internet application.

Mode 1: 3D mode is selected automatically when a 3D signal is detected while viewing video from a VOD service or HDMI-connected equipment.
Mode 2: 3D mode is selected automatically when, in addition to detecting a 3D signal while viewing video from a VOD service or HDMI-connected equipment, a video pattern with "Side by Side" or "Top and Bottom" format is also detected.
Off: Auto change is not performed.

NOTE

- This function does not work when the input source is Composite, Component, RGB or Analog/Digital tuner.

3D Depth Control

Select the method for adjusting the 3D depth.

Auto: The depth is adjusted automatically.
Manual: You can manually adjust the depth using the function "Depth Change".

NOTE

- This function is only available when the input signal is 3D.
- This function may not be displayed depending on the type of 3D signal.

Depth Change

Adjusts the depth manually. "0" is the level where no adjustment is made.

NOTE

- This function is only available when "3D Depth Control" is "Manual".

2D→3D Convert Effect

You can adjust the 3D effect when converting images from 2D mode to 3D mode.
Select a desired level of convert effect from +1 to +16.

NOTE

- This function is only available when converting 2D images to 3D images.
- When you use this function, image conversion on the TV will result in some differences in the original images and how they appear.
- 2D images that have been converted to 3D images may be viewed only for personal use.

Viewing Time Info

This displays the elapsed time of 3D image viewing.

Yes: Displays the elapsed viewing time on the screen every hour.
No: Does not display the elapsed viewing time.

3D Test

This displays 3D images for testing the 3D operation. Clicking "Start" on the screen plays back 3D test images.

- If you press **RETURN** during playback, the previous screen will be displayed.

3D Glasses Control

To enable this function, set "TV Location" to "Store".

On: Switch on signals to the 3D glasses. When watching 3D images, switch this setting to "On".
Off: Switch off signals to the 3D glasses. This will stop the TV from influencing 3D glasses that may be in that area of the store.

LC-80LE857U_757U_657U_E.indd 34 2013/02/21 13:36:03

Enjoying 3D Image Viewing (for the LE857U, LE757U, LE755U, LE657U and LE655U models)

NOTE

- Appropriate 3D Glasses are required to view 3D images. Purchase 3D Glasses for use with Sharp brand 3D LCD TVs.

■ 3D Glasses lenses

- Do not apply pressure to the lenses of the 3D Glasses. Also, do not drop or bend the 3D Glasses.
- Do not scratch the surface of the lenses of the 3D Glasses with a pointed instrument or other object. Doing so may damage the 3D Glasses and reduce the quality of the 3D image.
- Use only the cloth provided with the optional 3D Glasses to clean the lenses.

■ Caution during viewing

- Do not use devices that emit strong electromagnetic waves (such as cellular phones or wireless transceivers) near the 3D Glasses. Doing so may cause the 3D Glasses to malfunction.
- The 3D Glasses cannot operate fully at extreme high or low temperatures. Please use them within the specified usage temperature range.
- If the 3D Glasses are used in a room with fluorescent lighting (60 Hz), the light within the room may appear to flicker. In this case, either darken or turn off the fluorescent lights when using the 3D Glasses.
- Wear the 3D Glasses correctly. 3D images will not be correctly visible if the 3D Glasses are worn upside down or back-to-front.
- Other displays (such as computer screens, digital clocks, and calculators) may appear dark and difficult to view while wearing the 3D Glasses. Do not wear the 3D Glasses when watching anything other than 3D images.
- If you lie on your side while watching the TV with 3D Glasses, the picture may look dark or may not be visible.
- Be sure to stay within the viewing angle and optimum TV viewing distance when watching 3D images. Otherwise, you may not be able to enjoy the full 3D effect.
- The 3D Glasses may not work properly if there is any other 3D product or electronic devices turned on near the glasses or TV. If this occurs, turn off the other 3D product or electronic devices or keep the devices as far away as possible from the 3D Glasses.
- Stop using the 3D Glasses in any of the following situations:
  – When images consistently appear doubled while you are wearing the 3D Glasses
  – When you have difficulty perceiving the 3D effect
- If the 3D Glasses are faulty or damaged, stop using them immediately. Continued use of the 3D Glasses may cause eye fatigue, headaches and illness.
- If you have any abnormal skin reaction, stop using the 3D Glasses. In very rare instances, such reactions may be due to an allergic reaction to the coating or materials used.
- If your nose or temples become red or you experience any pain or itchiness, stop using the 3D Glasses. Pressure caused by long periods of use may lead to such reactions and may result in skin irritation.

■ Usage range of the 3D Glasses

- The 3D Glasses can be used by receiving a signal sent from the TV.
  The 3D Glasses turn off automatically after 15 seconds if no signal is recieved from the TV.
  Operating range:
  From directly in front of the 3D emitter on the TV: approx. 17 ft (5 m)
  (within approx. 30° horizontally and 20° vertically)
- For further details, refer to the operation manual of your 3D Glasses.

Enjoying Photo/Music/Video Playback

You can connect the TV to a USB memory device, USB hard drive or home network (DLNA) server to enjoy viewing pictures, listening to music, and watching videos.

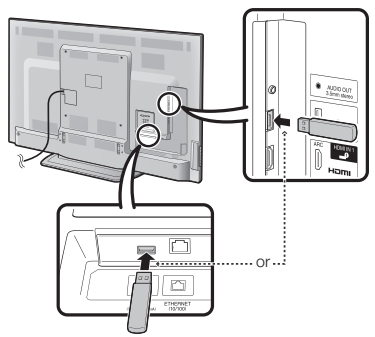
NOTE

- Depending on the USB memory device/USB hard drive/home network (DLNA) server, the TV may not be able to recognize the recorded data.
- It may take time to read the recorded data if the USB memory device/USB hard drive/home network (DLNA) server contains many files or folders.
- Use only alphanumeric characters for naming files.
- File names over 80 characters (may vary depending on character set) may not be displayed.

Connecting a USB Memory Device/USB Hard Drive

Insert the USB memory device with recorded photos, music or videos into the USB 1 or USB 2 terminal on the TV.

- If USB memory devices are inserted into both terminals, the USB 1 terminal has priority.



- When connecting a USB hard drive, be sure to use a hard drive with an AC adapter.
- Do not remove a USB memory device or memory card from the TV while transferring files, using the slide show function, or switching screens, or before you exit "USB" from the INPUT list.
- Do not insert and remove a USB memory device/USB hard drive to and from the TV repeatedly.
- When using a card reader, be sure to insert a USB memory device first.
- USB input cannot be selected when displaying the browser. Close the browser first.

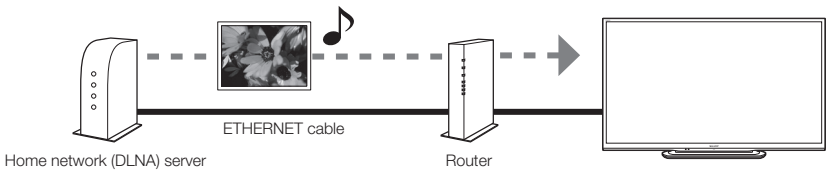
CAUTION

- **Do not use a USB extension cable when connecting a USB memory device to the USB terminal on the TV.**
- **Using a USB extension cable with the USB memory device may prevent the TV from performing correctly.**

LC-80LE857U_757U_657U_E.indd 35 2013/02/21 14:30:56

Connecting a Home Network (DLNA) Server

Connect the TV to the home network (DLNA) server using an ETHERNET cable.
• You can also connect a Home Network (DLNA) server by using a wireless LAN.



NOTE

• Do not disconnect a home network (DLNA) server from the TV while transferring files, when a screen is switching to another or before you exit "Home Network (DLNA)" from the INPUT list.
• Do not connect and disconnect a home network (DLNA) server from the TV repeatedly.

Selecting the Folders to Play Back

• To play back data on a USB memory device, insert the USB memory device on the TV. USB mode is selected automatically. (Go to step 2)
• Use the following procedure to switch back to USB mode after switching from USB mode to another mode.

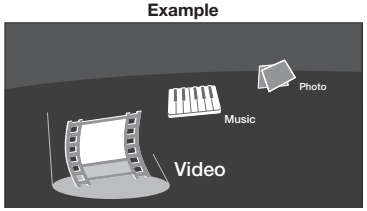
1 Select "USB" or "Home Network (DLNA)" from INPUT list screen.

2 Press **D**.

3 Press ▲/▼ (or ◀/▶) to select the drive/server where you want to find your files, and then press **ENTER**.
  • For USB mode, select the drive.
  • When in DLNA mode, select the server.

4 Press ◀/▶ to select "Photo", "Music" or "Video", and then press **ENTER**.

Example



5 Press ◀/▶ to select the desired folder, and then press **ENTER**.

NOTE

• The Media screen can be displayed even by using the application window. To display the application window, press **SmartCentral**. (See page 18.)
• You cannot switch the input mode if a USB memory device is not connected.
• You do not need to select the drive/server in step 3 when there is only one drive in the connected USB memory device or there is only one home network (DLNA) server connected to the TV.
• 16 is the maximum number of USB drives and 10 is the maximum number of home network (DLNA) servers that can be displayed.
• If the TV is turned off and then on again, the number assigned to the USB drive may change.
• "VIEW MODE" is fixed during the Photo or Music mode. During "Video mode", you can select "Auto" or "Original".
• The key guide display disappears automatically after a particular time has elapsed. To display the key guide display again, press **DISPLAY**.

USB Device Compatibility

USB device	USB Memory, USB card reader (Mass Storage class), USB hard drive
File system	FAT/FAT32/NTFS (USB hard drive only)
Photo file format	JPEG (.jpg) (DCF2.0 compliant) Multi-Picture Format (.mpo) (CIPA DC-007 Compliant) MP Type : Multi view individually image (stereoscopic view)
Music file format	MP3 (.mp3) Bitrate: 32k, 40k, 48k, 56k, 64k, 80k, 96k, 112k, 128k, 160k, 192k, 224k, 256k, 320kbps Sampling frequency: 32k, 44.1k, 48kHz

Video file format

File extension	Container	Video	Audio
.avi	AVI	DivX 3.11/4.x/5.1/6.0 XviD H.264 MPEG4 Motion Jpeg	MP3 Dolby Digital LPCM ADPCM DTS
.mkv	MKV	DivX 3.11/4.x/5.1/6.0 XviD H.264 MPEG4	MP3 Dolby Digital LPCM ADPCM DTS
.asf .wmv	ASF	DivX 3.11/4.x/5.1/6.0 XviD MPEG4 VC-1 Windows Media Video v9	MP3 Dolby Digital LPCM WMA
.mp4 .mov	MP4 (SMP4)	H.264 MPEG4 Motion Jpeg	MP3 Dolby Digital Dolby Digital Plus AAC
.mpg .mpeg	PS	MPEG2 MPEG1	Dolby Digital MPEG LPCM

NOTE

• Progressive format jpeg files are not supported.
• USB 1.1 devices may not be played properly.
• Operation using USB hubs is not guaranteed.
• Some video file formats may not be played depending on the file.
• Some images may not be displayed in the appropriate aspect ratio depending on the file format.

Home Network (DLNA) Server Compatibility

Photo file format	JPEG
Music file format	LPCM, MP3
Video file format	MPEG2-PS, MPEG2-TS, WMV, ASF, MP4, MOV, AVI

NOTE

• Progressive format jpeg files are not supported.
• Some video file formats may not be played depending on the file or the server.
• WMV, ASF, MP4, MOV and AVI are non-DLNA contents.

LC-80LE857U_757U_657U_E.indd 36 2013/02/21 13:36:03

Playing Back Files on a USB Memory Device/Home Network (DLNA) Server

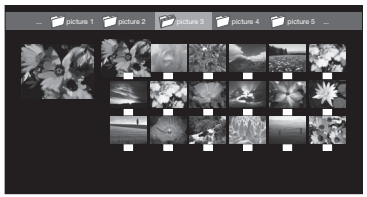
NOTE

- The screen images in this section are for the USB mode. It may be slightly different in the Home network (DLNA) mode.

Photo Mode

Viewing Thumbnails

Example



Buttons for thumbnail operations

Buttons	Description
▲/▼/◀/▶	Select a desired item.
ENTER	When selecting a folder icon: Enter this directory. When selecting a photo thumbnail: Enlarge the photo.
RETURN	Return to the previous process.
A (red)	USB mode: Select the images to be displayed. Press this button to add or remove a checkmark.
	Home Network (DLNA) mode: Display the Media screen.
B (green)	Display the music list screen. You can select the background music to be played for the slide show.
C (blue)*	Start the slide show.
D (yellow)	Display the USB MENU/Home Network (DLNA) Menu screen.

* This function is available only for the USB mode.

NOTE

- When there are invalid photo files, the **X** mark will be displayed for the file. (USB mode only.)
- The icon 3D appears on the thumbnails of 3D images. (USB mode only.)
  - For the LE857U, LE757U, LE755U, LE657U and LE655U models
    If you do not switch to 3D mode for the 3D images, they will be displayed in 2D.
  - For the LE650U, C7500U and C6500U models
    3D images are always displayed in 2D mode.
- You can see the file name, shooting date, file size and pixel size of the selected photo in the lower-left corner of the screen (shooting date is only available in the EXIF file format).

Viewing Individual Photos

The photo selected on the thumbnail selection screen is displayed.

Buttons for individual display operation

Buttons	Description
◀/▶	Go to the previous/next photo in the same directory.
RETURN	Return to the thumbnail selection screen.
3D*	Switches between 2D and 3D modes.
A (red)	Rotate the photo by 90 degrees to the left.
B (green)	Rotate the photo by 90 degrees to the right.

* This function is available for the LE857U, LE757U, LE755U, LE657U and LE655U models.

NOTE

- Rotating photos only applies to the temporarily selected item and this setting is not saved.
- In 3D mode, you cannot rotate the photos. (For the LE857U, LE757U, LE755U, LE657U and LE655U models)
- The key guide display disappears automatically after a particular time has elapsed. To display the key guide display again, press **DISPLAY**.

Slide Show

The photos displayed on the thumbnail selection screen are displayed as a slide show.

Buttons for slide show operation

Buttons	Description
RETURN	Return to the thumbnail selection screen.
3D*	Switches between 2D and 3D modes.
D (yellow)	Display the USB MENU/Home Network (DLNA) Menu screen.

* This function is available for the LE857U, LE757U, LE755U, LE657U and LE655U models.

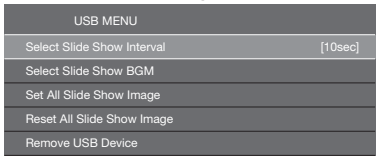
NOTE

- The selected BGM is played repeatedly.
- The slide show continues until you press **RETURN**.
- For setting the slide show speed, select "Select Slide Show Interval" on the USB MENU/Home Network (DLNA) Menu screen.
- The key guide display disappears automatically after a particular time has elapsed. To display the key guide display again, press **DISPLAY**.

USB Menu

On the menu to be displayed in USB mode, use ▲/▼ to select an item and make settings to your preferences.

Example



■ 3D Display (for the LE857U, LE757U, LE755U, LE657U and LE655U models)

You can view photos in 3D.

NOTE

- You can select "3D display" from "USB MENU" only when the thumbnails screen for the photo mode in USB mode is displayed on the screen.
- Depending on the file, the photos may not be displayed in 3D.

■ Select Slide Show Interval

Specify the length of time before the next image appears. Press ▲/▼ to select the desired length of the time, and then press **ENTER**.

5sec/10sec/30sec/60sec

NOTE

- For DLNA mode, follow the same procedure.
- Depending on the photo files, the length of the slide show interval may differ from the selected interval time.

■ Select Slide Show BGM

The music list screen appears when you select "Select Slide Show BGM".

You can select the music to be played in the background while the slide show is being displayed.

1. Select the music you want to play from the music list.
   - For operations on the music list screen, see "Music Mode".
2. Press **RETURN** to display the thumbnail selection screen, and then press **C** to start the slide show and the background music.

NOTE

- All of the music files are selected by default.

■ Set/Reset All Slide Show Image

Selecting "Set All Slide Show Image" or "Reset All Slide Show Image" will display the thumbnail selection screen. On the screen, set or reset the images to be displayed in the slide show.

Set All Slide Show Image: Checkmarks are added to all the images.

Reset All Slide Show Image: Removes all the checkmarks from all the images.

■ Remove USB Device

To remove the USB device properly, use ◀/▶ to select "Yes" and then press **ENTER**.

LC-80LE857U_757U_657U_E.indd 37 2013/02/21 17:48:14

Music Mode

Example

Buttons for music mode

Buttons	Description
▲/▼/◀/▶	Select a desired item.
ENTER	When selecting a folder icon: Enter this directory. When selecting a music file: Play music.
RETURN	Return to the previous process.
A (red)	USB mode: Select the music to be played back. Press this button to add or remove a checkmark.
	Home Network (DLNA) mode: Display the Media screen.
B (green)	Stop music.
C (blue)	Play/Pause music.
D (yellow)*	Display the USB MENU screen.

* This function is available only for the USB mode.

NOTE

- When there are invalid music files, the **X** mark will be displayed for the file. (USB mode only.)
- The displayed play time may differ slightly from the actual play time depending on the files.

USB Menu

On the menu to be displayed in USB mode, use ▲/▼ to select an item and make settings to your preferences.

Example

* See page 37 for details on the Remove USB Device function.

■ Set/Reset All Auto Play

Selecting "Set All Auto Play" or "Reset All Auto Play" will display the music list screen. On the screen, set or reset the music to be played back in the slide show.

Set All Auto Play: Checkmarks are added to all the music files.

Reset All Auto Play: Removes all the checkmarks from all the music files.

Video Mode

Example

Buttons for file selecting operations

Buttons	Description
▲/▼/◀/▶	Select a desired item.
ENTER	When selecting a folder icon: Enter this directory. When selecting a video file: Play the video.
RETURN	Return to the previous process.
A (red)	USB mode: Select/deselect items (checkmarks are added to the selected items).
	Home Network (DLNA) mode: Display the Media screen.
D (yellow)*	Display the USB MENU screen.

* This function is available only for the USB mode.

NOTE

- The key guide display disappears automatically after a particular time has elapsed. To display the key guide display again, press **DISPLAY**.

Buttons for playing mode

Buttons	Description
▲	Go to the beginning of a file by pressing once or to the previous file by pressing twice.
▼	Go to the next file.
▶	USB mode: The fast forward speed changes every time you press ▶. After playing to the end, the TV goes to the next file and starts to play.
	Home Network (DLNA) mode: Jump forward in a video. *3
◀	USB mode: The reverse speed changes every time you press ◀. After going back to the beginning, the TV starts to play the same file.
	Home Network (DLNA) mode: Jump back in a video. *3
ENTER	USB mode: Pause the video.
	Home Network (DLNA) mode: Play/Pause the video. *3
RETURN	Go back to the file selection screen.
3D*1	Switches between 2D and 3D modes.
A (red)*2	Jump to the scene where playback was last stopped.
B (green)	Stop a video.
C (blue)	Display the USB/home network (DLNA) operation panel.
D (yellow)*2	Display the USB MENU screen.
0-9*2	Jump to a point in the video during playback of a file without chapters. You can jump to a later point by pressing a higher number.*4

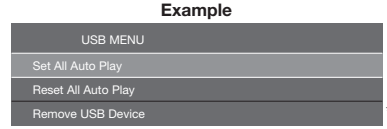
*1 This function is available for the LE857U, LE757U, LE755U, LE657U and LE655U models.
*2 These functions are available only for the USB mode.
*3 Jump forward/back and play/pause may not be available depending on the files.
*4 During playback of a file without chapters, playback points are set automatically. Playback points are set at intervals of a one-tenth of playback time.
Example for a file with a playback time of 100 minutes: Pressing **1** jumps 10 minutes forward, and pressing **2** jumps 20 minutes forward. Pressing **0** returns to the start of the file being played back.

USB Menu

On the menu to be displayed in USB mode, use ▲/▼ to select an item and make settings to your preferences.

Menu for file selecting operations

Example



* See page 37 for details on the Remove USB Device function.

■ Set/Reset All Auto Play

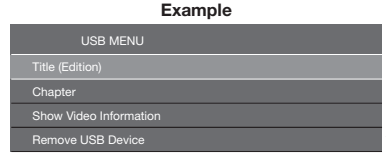
Selecting "Set All Auto Play" or "Reset All Auto Play" will display the video list screen. On the screen, set or reset the video to be played back in the slide show.

Set All Auto Play: Checkmarks are added to all the video files.

Reset All Auto Play: Removes all the checkmarks from all the video files.

Menu for playing mode

Example



* See page 37 for details on the Remove USB Device function.

■ Title (Edition)/Chapter

Selecting "Title (Edition)" or "Chapter" will display a list of titles/chapters contained in the video file. Select the title or chapter you want to play back.

- The selected title or chapter is played back.
- "0-9" is displayed for files without chapters. Playback jumps to the playback point of the selected number.

NOTE

- If there is Edition information, this screen is displayed when the title is selected.
- If there is no title or edition, you cannot select "Title (Edition)".
- "Chapter" cannot be selected when there is no chapter.

■ Show Video Information

The information of the current file is displayed.

LC-80LE857U_757U_657U_E.indd 38 2013/02/21 13:36:04

USB Operation Panel/Home Network (DLNA) Operation Panel

You can use the operation panel for video playback operations.
You can call up this operation panel from "System Options" > "View Option".

Example

Buttons for using the USB operation panel

◀◀	Hold down to go in reverse.
▶	Starts playback.
▶▶	Hold down to fast forward.
⏮	Video without chapters: Press once to return to the previous playback point.* Press twice to return to the previous file. Video with chapters: Press once to return to the previous chapter. Press twice to return to the previous file.
⏸	Sets pauses and still pictures.
⏭	Video without chapters: Press once to advance to the next playback point.* Press twice to display the next file. Video with chapters: Press once to advance to the next chapter. Press twice to display the next file.
Audio	Change the audio when multiple audio is available for the video you are watching.
■	Playback stops.
CC	Change the Closed Caption display.
Title	Displays the title (edition).
Resume jump	Jump to the scene where playback was last stopped.

* During playback of a file without chapters, playback points are set automatically. Playback points are set at intervals of a one-tenth of playback time.
Example for a file with a playback time of 100 minutes: Playback points are set every 10 minutes. Pressing ⏭ one time after viewing the file for 15 minutes jumps to the 20-minute playback point.

NOTE

- Reverse/fast forward continues from one file to another during continuous playback.
- Use "CC" on the operation panel to change the Closed Caption display. You can also switch the Closed Caption display by using "System Options" > "View Option" > "Change CC" or by pressing **CC** on the remote control unit.
- Use "Audio" on the operation panel to change the audio. You can also switch the audio by using "System Options" > "View Option" > "Change Audio".

Buttons for using the Home Network (DLNA) operation panel

▶	Starts playback.
⏮	Go to the beginning of a file by pressing once or to the previous file by pressing twice.
⏸	Sets pauses and still pictures.
⏭	Go to the next file.
■	Playback stops.
↶	Jump back in a video.
↷	Jump forward in a video.

DivX® Setup

This is the function to confirm your registration code. You need to register the code at http://www.divx.com.

1 Press **MENU** to display the MENU screen.
2 Press ◀/▶ to select "Initial Setup", and then press **ENTER**.
3 Press ▲/▼ to select "DivX® Setup", and then press **ENTER**.

■ DivX® VOD Registration
You can find your registration code on this menu. You need to register the TV at http://www.divx.com before playing the DivX content.

■ DivX® VOD Deregistration
You can find your deregistration code on this menu. You need to deregister the TV at http://www.divx.com to release the registration.

NOTE

- This function is available only for the USB mode.
- This function may not work while an Internet application is being used.

Playing Back Files from a Portable Device or PC

With the remote playback function, you can use your portable device to play back pictures, video, and music on the home network server.

- This TV is a DLNA certified Digital Media Renderer. (DMR)
- To use the remote playback function, your portable device must be a DLNA Certified Digital Media Controller.
- A wireless access point is required to use a portable device.

Set Up Home Network

Make the settings for remote playback.

1 Press ◀/▶ to select "Initial Setup", and then press **ENTER**.
2 Press ▲/▼ to select "Internet Setup", and then press **ENTER**.
3 Press ▲/▼ to select "Set Up Home Network", and then press **ENTER**.
4 Press ▲/▼ to select the specific adjustment item, and then press **ENTER** to set each item.

■ Remote Control Play Settings
This setting allows the TV to perform remote playback.
Permitted/Not allowed

■ Timeout Setup
This sets the time until the TV returns automatically to TV mode after remote playback ends.
10 sec./60 sec./No

NOTE

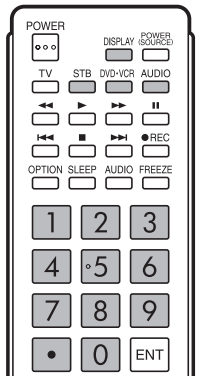
- This function may not work while an Internet application is being used.
- For information on the compatible formats, see "Home Network (DLNA) Server Compatibility" on page 36.

LC-80LE857U_757U_657U_E.indd 39 2013/02/21 13:36:04

Other Viewing Options

Presetting Remote Control Function

You can operate the connected AV products (AV receiver, cable box, SAT tuner, DTV, VCR, BD, DVD, LD) using the presetting manufacturer function of your remote control unit.



Presetting manufacturer codes

1. Press an appropriate button (**STB**, **DVD•VCR** or **AUDIO**) to operate the connected equipment.
2. Press an appropriate button (**STB**, **DVD•VCR** or **AUDIO**) and **DISPLAY** at the same time to enter the code registration mode.
3. Press **0**–**9** to enter the manufacturer code.
   - Preset mode is finished once the LED no longer lights up.
4. After registering the code, the LED will stop blinking then turn off after one second. (If you perform an incorrect operation, the LED will blink quickly then turn off.)

Manufacturer codes

STB BRAND	REMOTE CONTROL CODE NUMBER
ANVISION	04, 05
CABLE STAR	04, 05
DISH NETWORK	39, 40
DIRECTV	41
EAGLE	05
G.INSTRUMENT	02, 03, 10, 11, 17, 20
GERROLD	17
JERROLD	02, 03, 10, 11, 12, 20, 25-34
MAGNAVOX	04, 05, 08, 12, 15, 16, 18, 19, 22, 23
MOTOROLA	38
OKA SIGMA	07
PANASONIC	14, 21
PHILIPS	04, 05, 08, 13, 15, 16, 18, 19, 22, 23
PIONEER	07
RANDTEK	04, 05
RCA	14, 36*, 37*
S.ATLANTA	01, 09, 24
VIEWSTAR	04, 05, 08, 13, 15, 16, 18, 19, 22, 23
ZENITH	06, 35

NOTE

- Numbers marked with * are SAT codes, all others are STB codes.

BD/DVD/LD BRAND	REMOTE CONTROL CODE NUMBER
DENON	24
JVC	31
KENWOOD	36
MAGNAVOX	26
MARANTZ	26
MITSUBISHI	28
PANASONIC	24, 37
PHILIPS	26, 38
PIONEER	30, 33, 35
PROSCAN	25
RCA	25, 39
SAMSUNG	29, 34
SHARP	23, 32, 41, 42
SONY	27, 40
TOSHIBA	26
YAMAHA	24
ZENITH	26

- Depending on the brand, the codes of some BD players may not be supported.

VCR BRAND	REMOTE CONTROL CODE NUMBER
AUDIO DYNAMICS	09
BROCKSONIC	13
CANON	04
CRAIG	12
CURTIS MATHIS	04
DBX	09
EMERSON	10, 13, 14
GE	04
INSTANT REOLYA	04
JC PENNEY	04
JVC	09, 16, 17, 22
KENWOOD	09
MAGNAVOX	04, 05, 06
MAGNIN	12
MEMOREX	04
MONTGOMERY WARD	02
NEC	09
PANASONIC	04, 18, 19, 20, 21
PENTAX	05
PHILCO	04, 05
PHILIPS	04, 05, 06
QUASAR	04
REALISTIC	01, 02
SAMSUNG	11, 12
SHARP	01, 02, 03
SONY	07, 08, 15
SYLVANIA	04, 05, 06
TATUNG	09
TEAC	09
TMK	10
YAMAHA	09

AUDIO BRAND	REMOTE CONTROL CODE NUMBER
SHARP	01
SHARP (SOUND BAR)	02

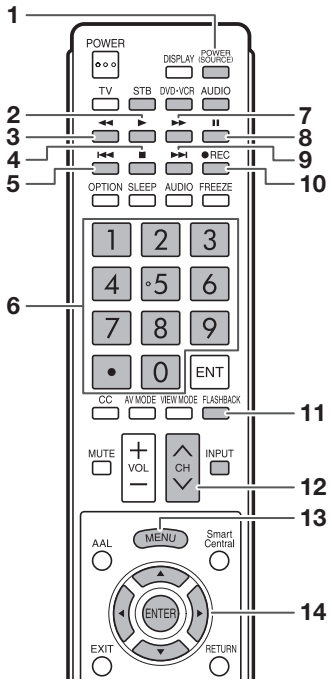
LC-80LE857U_757U_657U_E.indd 40 2013/02/21 13:36:04

Other Viewing Options

Operating the Connected Equipment

To operate the connected equipment, press **STB**, **DVD•VCR** or **AUDIO** to select your device. (STB (cable/satellite set-top box), BD, DVD, VCR or AUDIO.) The remote control unit button will function as follows.

- When you operate VCR, DVD or BD, press **INPUT** to select the terminal connected to your device.
- CABLE and SAT cannot be selected at the same time.



1 POWER (SOURCE)
- Turns the connected equipment power on and off.

2 ▶
- Starts playback. (VCR, BD, DVD)

3 ◀◀
- Rewinds the tape and allows picture search. (VCR)
- Hold down to go in reverse. (BD, DVD)

4 ■
- Stops the tape transport. (VCR)
- Playback stops when pressed. With some Blu-ray disc/DVD players, pressing the button twice may open the disc tray. (BD, DVD)

5 |◀◀
- Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter. (BD, DVD)

6 0–9, • (DOT)
- Press a button (or buttons) that corresponds to the channel that you wish to watch.(STB)

7 ▶▶
- Rapidly advances the tape and allows picture search. (VCR)
- Hold down to fast forward. (BD, DVD)

8 ❚❚
- Sets pauses and still pictures. (VCR, BD, DVD)

9 ▶▶|
- Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter. (BD, DVD)

10 ●REC
- Starts recording. (VCR)

11 FLASHBACK
- Press to switch between the current channel and the channel you were watching immediately before. Some manufacturers do not preset FLASHBACK. (STB)

12 CH∧/∨
- Press **CH∧** or **CH∨** to tune in to a higher or lower channel. (STB)
- Press to select the channel of the TV tuner on the VCR. (VCR)

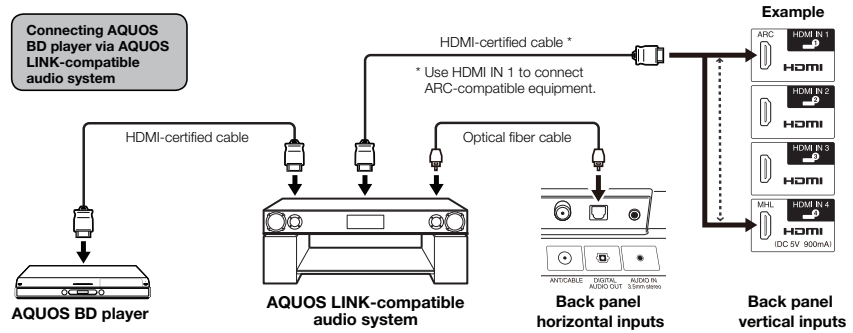
13 MENU
- When this button is pressed, the BD/DVD menu will display. (BD, DVD)

14 ▲/▼/◀/▶, ENTER
- **▲/▼/◀/▶**: Press the button to select items on the STB GUIDE screen or STB MENU screen. (STB)
  Press the button to select items on the BD/DVD menu screen. (BD, DVD)
- **ENTER**: Press to activate the selected function. (STB, BD, DVD)

Using AQUOS LINK

Controlling HDMI Equipment Using AQUOS LINK

What's AQUOS LINK?
- Using the HDMI CEC (Consumer Electronics Control) protocol, with AQUOS LINK you can interactively operate compatible system equipment (Blu-ray disc equipment, AV amplifier, DVD).
- By connecting AQUOS LINK-compatible devices with HDMI-certified cables to the TV, you can control a recorder or AV amplifier using the remote control of the TV.
- AQUOS LINK allows you to operate the HDMI-connected equipment with one remote control.



NOTE
- For connecting the TV to AQUOS LINK-compatible equipment, use commercially available cables.
- Point the remote control toward the TV, not to connected HDMI equipment.
- Video noise may occur depending on the type of HDMI cable used. Make sure to use an HDMI-certified cable.
- Up to 3 pieces of HDMI recording equipment and one AV amplifier can be connected using this system.
- These operations affect the HDMI equipment selected as the current input source. If the equipment does not operate, turn on the equipment and select the appropriate input source using **INPUT**.
- The AQUOS LINK feature may not operate properly when an HDMI splitter or AV selector unit is used. These devices may cause interruptions to the image and/or sound.

Connected AQUOS LINK-compatible devices can be operated without changing the settings of the remote control unit.

The **OPTION** button will function only when AQUOS LINK is used.

■ One Touch Play
While the TV is in standby mode, it automatically turns on and plays back the image from the HDMI source.

■ One Touch Recording
Press **●REC** while you are viewing a broadcast received with the AQUOS LINK-compatible recorder. The AQUOS LINK automatically recognizes the connected HDMI device and starts recording.

■ Single remote control
The AQUOS LINK automatically recognizes the connected HDMI device and you can control the TV and the devices as if using a universal remote control.

■ Control the AQUOS LINK-compatible audio system
Set the volume of AQUOS LINK-compatible audio system.

NOTE
- The above description is an example of the AQUOS LINK function.
- The steps in "AQUOS LINK Setup" on page 42 need to be completed beforehand.
- Refer to this operation manual and the operation manual of the AQUOS LINK device to be used with this TV.

LC-80LE857U_757U_657U_E.indd 41 2013/02/21 13:36:04

AQUOS LINK Setup

Make the settings to use AQUOS LINK. Set the settings with "System Options" > "AQUOS LINK Setup". For operating the on-screen display menu, see page 22.

AQUOS LINK Control

Select AQUOS LINK Control to disable the AQUOS LINK function even when an AQUOS LINK-compatible HDMI device is connected to the TV. This function prevents the device from starting to operate unexpectedly.

Auto Power On

If this is activated, the One Touch Play function is enabled. While the TV is in standby mode, it automatically turns on and plays back the image from the HDMI source.

Selecting Recorder

When multiple AQUOS LINK-compatible devices are connected, this function allows you to set the recorder for recording when you press ●**REC** on the TV's remote control unit.

Press ▲/▼ to select the recorder for recording.

Channel Select Key

This function can be set for each input terminal. The remote control unit of the TV can be used to select the channel, display program information, and perform other operations of the connected AQUOS LINK-compatible equipment.

Audio Return Channel

This function allows you to listen to the TV audio via audio equipment without using an optical fiber cable, which conventionally is required.

Requirements for using an ARC-compatible AV amplifier:

- ARC-compatible AV amplifier connected to the ARC-compatible HDMI IN terminal (HDMI IN 1). (Refer to the operation manual of the ARC-compatible equipment for details.)
- Use of an ARC-compatible cable.
  Auto: You can listen to the TV audio with ARC-compatible audio equipment.
  Off: This function does not work.

NOTE

- If the TV audio cannot be output from the AV amplifier even after making the necessary settings, connect the TV to the AV amplifier with an optical fiber cable and select "Off".

One Touch Playback

AQUOS LINK allows you to operate the HDMI-connected equipment with one remote control.

Press ▶ to start playing back a title.

- The last played program is played back. You can use the following buttons during broadcast viewing.

Buttons	Description
POWER (SOURCE)	Turns the power of the HDMI connected devices on and off.
◀◀	Hold down this button to go in reverse.
▶	Starts playback.
▶▶	Hold down this button to fast forward.
■	Stops playback.
❚❚	Sets pauses and still pictures.
⏮	Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter.
⏭	Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter.

NOTE

- The buttons ⏮/⏭ do not function with the following Blu-ray disc players currently available.
  - BD-HP20U, BD-HP50U

One Touch Recording

This function allows easy one-touch recording of the program being viewed on the TV to AQUOS LINK-compatible equipment with a recording function by simply pressing ●**REC** on the remote control.

Prepare the connected AQUOS LINK-compatible recorder for recording. Check the following items.

- Make sure that the antenna cable is connected.
- Check that there is sufficient available space on the recording media (HDD, DVD, etc.).
- On the TV, use "AQUOS LINK Setup" and "Selecting Recorder" to select the equipment for recording.
- By default, the recorder connected to HDMI IN 1 is selected for recording.

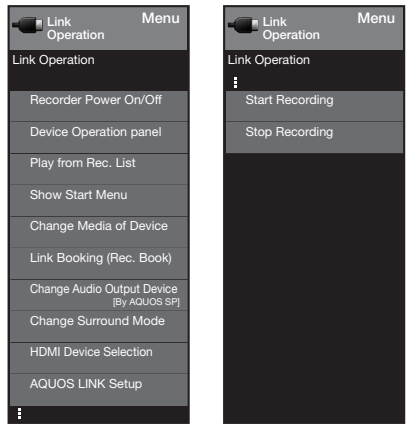
1 Press ●**REC** to start recording.

- When you are viewing a broadcast received with the AQUOS LINK-compatible recorder selected in "Selecting Recorder", recording to the AQUOS recorder of the broadcast being viewed starts.
- When you are viewing a broadcast received with equipment other than the AQUOS LINK-compatible recorder selected in "Selecting Recorder" or other external input equipment, pressing ●**REC** on the remote control does not start recording.

2 Use the Link Operation Menu to stop recording.

① Press **OPTION** to display the Link Operation Menu screen.
② Press ▲/▼ to select "Stop Recording", and then press **ENTER**.

Link Operation Menu



The Link Operation Menu allows you to make adjustments during operation of AQUOS LINK-compatible equipment.

1 Press **OPTION** to display the Link Operation Menu.

2 Press ▲/▼ to select the desired item, and then press **ENTER**.

- Specific operations differ depending on the item you select. Following are the basic operations for each item.

Recorder Power On/Off

You can manually turn on/off the power of the connected AQUOS LINK-compatible equipment. Each time you press **ENTER**, the connected equipment switches on or off.

LC-80LE857U_757U_657U_E.indd 42 2013/02/21 13:36:04

Device Operation Panel

You can use the device operation panel to control playback operations.
Press ▲/▼/◀/▶ to select the desired operation.

NOTE

- This function works only when AQUOS LINK-compatible equipment with the Device Operation Panel function is connected.

Play from Rec. List

This function allows you to display the title list for the connected equipment and to play back the title you want to enjoy.

Before using this function.
Power on the AQUOS LINK-compatible equipment, and select the appropriate external input.

Select the title with ▲/▼/◀/▶, and then press ▶ to start playback.

NOTE

- This function works only when AQUOS LINK-compatible equipment is connected.

Show Start Menu

You can call up a setup menu from the connected AQUOS LINK-compatible equipment.

NOTE

- Depending on the status of the equipment (recording or in standby mode, etc), the setup menu will not be displayed.
- The setup menu will not be displayed with the player BD-HP20U currently available.

Change Media of Device

You can switch the media (HDD or DVD) for playback or recording on the AQUOS LINK-compatible recorder.

- The Media type toggles each time you press **ENTER** in "Change Media of Device".

Link Booking (Rec. Book)

You can call up the AQUOS LINK-compatible recorder's EPG and preset timer recordings using the TV's remote control.
Select the program on the recorder's EPG.

- You can use ▲/▼/◀/▶, **ENTER**, **RETURN**, **EXIT** and the colored buttons.

NOTE

- This function works only when an AQUOS LINK-compatible recorder is connected.
- Refer to the operation manual of the recorder for details.

Change Audio Output Device

You can select to listen to the TV sound only from the AQUOS LINK-compatible audio system.

By AQUOS audio SP: The sound from the TV speaker is muted and only the sound from the AQUOS LINK-compatible audio system is audible.
- You can use **VOL+/-** and **MUTE**.

By AQUOS SP: The sound is output from the TV speaker.

Change Surround Mode

You can manually change the AQUOS AUDIO speaker system's sound mode.
The sound mode changes each time you press **ENTER**.

- Refer to the operation manual of the AQUOS LINK-compatible audio system for details.

HDMI Device Selection

If multiple HDMI devices are connected in a daisy chain, you can specify which device to control here.
Press ▲/▼ to select the desired device from a list of connected HDMI devices, and then press **ENTER**.

AQUOS Link Setup

You can also display the AQUOS LINK Setup screen from the Link Operation Menu.

Start/Stop Recording

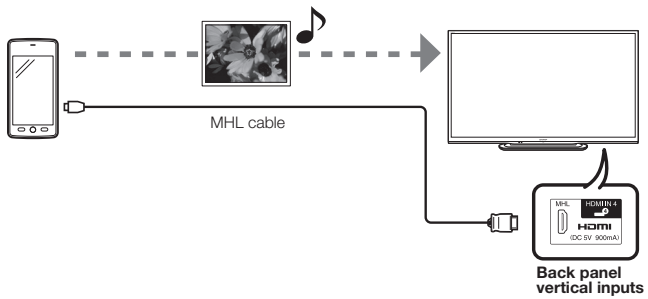
You can also use the Link Operation Menu for recording on the connected AQUOS LINK-compatible equipment.

- You can also start recording by pressing ●**REC** on the remote control unit.

Using a Smartphone with the TV

This function enables you to connect the TV to a smartphone that supports Mobile High-Definition Link (MHL™) using an MHL cable.
To connect the TV to your MHL-compatible smartphone, be sure to use an MHL cable (commercially available).

- You can view pictures and video on a large screen.
- You can play back music files.



Back panel vertical inputs

NOTE

- An MHL-compatible portable device is required to use this function. Connect the device to the HDMI IN 4 terminal.
- This product incorporates MHL 1.

■ Auto Power On

When an MHL-compatible device is connected to the TV, the TV turns on automatically.
- This function operates when "AQUOS LINK Control" is set to "On". (See page 42.)

■ Auto Input Selection

When an MHL-compatible device is connected while the TV is on, the input mode is selected automatically.
- This function operates when "AQUOS LINK Control" is set to "On". (See page 42.)

■ Operation Using the Remote Control

The remote control of the TV can be used to operate a portable device.
- ▲/▼/◀/▶, **ENTER**, **EXIT**, **0**-**9**, • (DOT), **ENT**, etc.
- The operations vary depending on the connected equipment and content being viewed.

LC-80LE857U_757U_657U_E.indd 43 2013/02/21 13:36:04

Using a PC

Adjusting the PC Image

You can adjust the position of the image input from a PC the settings with "System Options" > "Terminal Setting" > "PC input".

Auto Sync. (for Analog PC Input Mode Only)

For automatically adjusting the PC image.

Yes: Auto Sync. starts and "Now adjusting the image." displays.

No: This function does not work.

NOTE

- When "Auto Sync." is successful, "Completed" displays. If not, "Auto Sync." failed.
- "Auto Sync." may fail even if "Completed" displays.
- "Auto Sync." may fail if the computer image has low resolution, has unclear (black) edges, or is moved while executing "Auto Sync.".
- Be sure to connect the PC to the TV and switch it on before starting "Auto Sync.".

Fine Sync.

Ordinarily you can easily adjust the picture as necessary to change image position using "Auto Sync.". In some cases, however, manual adjustment is needed to optimize the image.

H-Pos.: Centers the image by moving it to the left or right.

V-Pos.: Centers the image by moving it up or down.

Clock: Adjust when the image flickers with vertical stripes.

Phase: Adjust when characters have low contrast or when the image flickers.

NOTE

- For resetting all "Fine Sync." adjustment items to the factory preset values, press ▲/▼ to select "Reset", and then press **ENTER**.
- It is not necessary to adjust the "Clock" or "Phase" when a digital signal is being input, so it cannot be selected.
- The default cursor position may not be in the center, because the screen position variable ranges may be asymmetrical.
- The screen position variable ranges depend on the View Mode or the signal type. The ranges can be seen on the position-setting screen.

Setting Audio Input

Audio Select

This function sets the terminal to output the computer audio.

The adjustment items vary depending on the input source. Select the input source corresponding to the terminal connected to the PC and then adjust the desired item.

To perform the operation, refer to "System Options" > "Terminal Setting" > "Audio Select".

■ **PC IN**

Video: Select this when the TV and PC are connected using an analog RGB cable and the audio is not input.

Video+Audio: Select this when the TV and PC are connected using an analog RGB cable and the audio is input via a Ø 3.5 mm stereo minijack.

■ **HDMI 2**

HDMI(Digital): Select this when the TV and PC are connected using an HDMI-certified cable and audio is input via the same cable.

HDMI+Analog: Select this when the TV and PC are connected using a DVI-HDMI conversion cable and the audio is input via a Ø 3.5 mm stereo minijack.

NOTE

- When "Audio Select" is set to "HDMI(Digital)", sound will not be produced if you use only an HDMI-certified cable to connect HDMI-compatible equipment. To produce sound, you should make an analog audio connection.
- If you want to connect HDMI-compatible equipment using only an HDMI-certified cable, set "Audio Select" to "HDMI(Digital)".

Control of the TV

- The TV can be controlled from a PC, control panels and other devices using the RS-232C or IP.
- Use a cross-type RS-232C cable, ETHERNET cable (commercially available) or wireless LAN for the connections.

NOTE

- This operation system should be used by a person who is accustomed to using computers.

AQUOS Remote Control

Set this function when operating the TV from equipment connected by LAN or wireless LAN. To perform the operation, refer to "Initial Setup" > "Internet Setup".

■ **AQUOS Remote Control**

When "AQUOS Remote Control" is selected, "Change" will be highlighted. Press **ENTER**.

■ **Detailed Settings**

Make the detailed settings (Login ID, password, etc.). Follow the on-screen instructions to configure the settings.

TV Name Setting

Set the name of the TV displayed on other network devices.

- Use the software keyboard to set the name. See page 47 for details on the software keyboard.

Communication Conditions for IP

Connect to the TV with the following settings made for IP on the PC.

IP protocol:	TCP/IP
Host IP address:	Set the IP address on the TV menu
Service:	None (Do not select Telnet or SSH)
TCP port#:	Set a port number on the TV menu (Control port)

When you set your ID and password on the TV menu, you need to enter them as soon as you connect to the TV.

NOTE

- When you use this function, make settings for "AQUOS Remote Control".
- The connection will be cut off when there has been no communication for 3 minutes.

Communication Conditions for RS-232C

Set the RS-232C communication settings on the PC to match the TV's communication conditions.

The TV's communication settings are as follows:

Baud rate:	9,600 bps
Data length:	8 bits
Parity bit:	None
Stop bit:	1 bit
Flow control:	None

■ **Communication procedure**

Send the control commands from the PC via the RS-232C or IP.

The TV operates according to the received command and sends a response message to the PC.

Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

■ **Command format**

Eight ASCII codes + CR

C1	C2	C3	C4	P1	P2	P3	P4	↵

Command 4-digits | Parameter 4-digits | Return code

Command 4-digits: Command. The text of four characters.
Parameter 4-digits: Parameter 0–9, x, blank, ?

■ **Parameter**

Input the parameter values, aligning left, and fill with blank(s) for the remainder. (Be sure that 4 values are input for the parameter.)

When the input parameter is not within an adjustable range, "ERR" returns. (Refer to "Response code format".)

Any numerical value can replace the "x" on the table.

0			
0	0	0	9
–	3	0	

When "?" is input for some commands, the present setting value responds.

?			
?	?	?	?

■ **Response code format**

Normal response

O	K	↵

Return code (0DH)

Problem response
(communication error or incorrect command)

E	R	R	↵

Return code (0DH)

LC-80LE857U_757U_657U_E.indd 44 2013/02/21 13:36:04

■ Command table

• Commands not indicated here are not guaranteed to operate.

CONTROL ITEM		COMMAND	PARAMETER	CONTROL CONTENTS	
POWER ON COMMAND SETTING		R S P W	0 _ _ _	Off	The Power On command rejected.
			1 _ _ _	On [RS-232C]	The Power On command accepted.
			2 _ _ _	On [IP]	The Power On command accepted.
POWER SETTING		P O W R	0 _ _ _	Power Off	It shifts to standby.
			1 _ _ _	Power On	Power On
INPUT SELECTION	TOGGLE	I T G D	x _ _ _	(Toggle)	It input-switches by the toggle. (It is the same as an input change key)
	TV	I T V D	0 _ _ _		It input-switches to TV. (A channel remains as it is. (Last memory))
	1-8	I A V D	* _ _ _	1: HDMI IN 1, 2: HDMI IN 2, 3: HDMI IN 3, 4: HDMI IN 4, 5: COMPONENT IN, 6: VIDEO IN 1, 7: VIDEO IN 2, 8: PC IN	
AV MODE SELECTION		A V M D	* * * _	0: (Toggle), 1: STANDARD (ENERGY STAR)*1, 2: MOVIE, 3: GAME, 4: USER, 5: DYNAMIC (Fixed), 6: DYNAMIC, 7: PC, 8: x.v.Color,13: VINTAGE MOVIE 14: STANDARD (3D), 15: MOVIE (3D), 16: GAME (3D), 100: AUTO	Although it can choose now, it is toggle operation in inside. 8, 13: For the LE857U, LE757U, LE755U and C7500U models. 14, 15, 16: For the LE857U, LE757U, LE755U, LE657U and LE655U models.
VOLUME		V O L M	* * _ _	Volume (0-100)	
POSITION	H-POSITION	H P O S	* * * _		The screen position variable ranges depend on the View Mode or the signal type. The ranges can be seen on the position-setting screen.
	V-POSITION	V P O S	* * * _		
	CLOCK	C L C K	* * * _	Only PC mode. (0-180)	
	PHASE	P H S E	* * * _	Only PC mode. (0-40)	
VIEW MODE		W I D E	* * _ _	0: (Toggle) [AV], 1: Side Bar [AV], 2: S.Stretch [AV] 3: Zoom [AV], 4: Stretch [AV, USB-Video, DLNA-Video or Internet applications], 5: Normal [PC] 6: Zoom [PC], 7: Stretch [PC], 8: Dot by Dot [PC] [AV], 9: Full Screen [AV] 10: Auto [USB-Video, DLNA-Video or Internet applications], 11: Original [USB-Video, DLNA-Video or Internet applications]	0: Although it can choose now, it is toggle operation in inside. 1: Only available when 4:3 signal is being input. 5, 6: Only available when 4:3 signal is being input. 8: [PC] Available except when UXGA is being input. [AV] Only available when 1080i/p is being input. 9: Only available when 720p is being input. 10, 11: Available when USB-Video, DLNA-Video or Internet application is used.
MUTE		M U T E	* _ _ _	0: (Toggle), 1: On, 2: Off	
SURROUND		A C S U	* _ _ _	For the LE857U, LE757U, LE755U, LE657U and LE655U models: 0: (Toggle), 1: Normal, 2: Off, 4: 3D Hall, 5: 3D Movie, 6: 3D Standard, 7: 3D Stadium	
				For the LE650U, C7500U and C6500U models: 0: (Toggle), 1: On, 2: Off	
AUDIO SELECTION		A C H A	x _ _ _	(Toggle)	
SLEEP TIMER		O F T M	* _ _ _	0: Off, 1: OFF TIMER - 30 MIN., 2: OFF TIMER - 60 MIN., 3: OFF TIMER - 90 MIN., 4: OFF TIMER - 120 MIN.	
CHANNEL	DIRECT CHANNEL (ANALOG)	D C C H	* * * _	The channel number of TV (1-135)	An input change is included if it is not TV display. In Air, 2-69ch is effective. In Cable, 1-135ch is effective.
	DIRECT CHANNEL (DIGITAL)	D A 2 P	* * * *	(0100-9999)	DIGITAL Air (Two-Part numbers, 2-digit plus 2-digit)
		D C 2 U	* * * _	(1-999)	DIGITAL Cable (Two-Part numbers, 3-digit plus 3-digit) Front half of DIGITAL CABLE CHANNEL NO. (Designate major channel)
		D C 2 L	* * * _	(0-999)	DIGITAL Cable (Two-Part numbers, 3-digit plus 3-digit) Rear half of DIGITAL CABLE CHANNEL NO. (Designate minor channel)
CHANNEL	DIRECT CHANNEL (DIGITAL)	D C 1 0	* * * *	(0-9999)	DIGITAL Cable (One-Part numbers, 5-digit, less than 10,000)
		D C 1 1	* * * *	(0-6383)	DIGITAL Cable (One-Part numbers, 5-digit, more than 10,000)
	CH UP	C H U P	x _ _ _	The channel number of TV +1	If it is not TV display, it will input-switch to TV. (same function as CH∧)
	CH DOWN	C H D W	x _ _ _	The channel number of TV -1	If it is not TV display, it will input-switch to TV. (same function as CH∨)
CC		C L C P	x _ _ _	(Toggle)	Toggle operation of a closed caption.
DEVICE NAME		T V N M	1 _ _ _		The device name set in "TV Name Setting" is displayed.
MODEL NAME		M N R D	1 _ _ _		The model name of the TV
SOFTWARE VERSION		S W V N	1 _ _ _		The current version of the TV software is displayed.
IP PROTOCOL VERSION		I P P V	1 _ _ _		The currently supported version of IP protocol is displayed.
3D		T D C H	* _ _ _	0: 3D Off, 1: 2D→3D, 2: SBS, 3: TAB, 4: 3D?2D (SBS), 5: 3D→2D (TAB), 6: 3D auto, 7: 2D auto	This control item is available for the LE857U, LE757U, LE755U, LE657U and LE655U models.
REMOTE CONTROL BUTTONS		R C K Y	* * _ _	0-9: 0-9, 10: DOT, 11: ENT, 12: POWER, 13: DISPLAY, 14: POWER (SOURCE) 15: ◀◀, 16: ▶, 17: ▶▶, 18: ❚❚, 19: ⏮, 20: ■, 21: ⏭, 22: ●REC, 23: OPTION, 24: SLEEP, 27: CC, 28: AV MODE, 29: VIEW MODE, 30: FLASHBACK, 31: MUTE, 32: VOL -, 33: VOL +, 34: CH ∧, 35: CH ∨, 36: INPUT, 38: MENU, 39: SmartCentral, 40: ENTER, 41: ▲, 42: ▼, 43: ◀, 44: ▶, 45: RETURN, 46: EXIT, 47: FAVORITE CH, 49: AUDIO, 50: A (red), 51: B (green), 52: C (blue), 53: D (yellow), 54: FREEZE, 55: FAV APP 1, 56: FAV APP 2, 57: FAV APP 3, 58: 3D, 59: NETFLIX, 60: AAL	58: For the LE857U, LE757U, LE755U, LE657U and LE655U models

*1 Except for LC-90LE657U

NOTE

- If an underbar (_) appears in the parameter column, enter a space.
- If an asterisk (*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.
- Any numerical value can replace the "x" on the table.

PC Compatibility Chart

It is necessary to set the PC correctly to display XGA and WXGA signal.

Resolution		Horizontal Frequency	Vertical Frequency	VESA Standard
VGA	720 x 400	31.5 kHz	70 Hz	○
	640 x 480	31.5 kHz	60 Hz	○
		37.9 kHz	72 Hz	○
		37.5 kHz	75 Hz	○
SVGA	800 x 600	35.1 kHz	56 Hz	○
		37.9 kHz	60 Hz	○
		48.1 kHz	72 Hz	○
		46.9 kHz	75 Hz	○
XGA	1024 x 768	48.4 kHz	60 Hz	○
		56.5 kHz	70 Hz	○
		60.0 kHz	75 Hz	○
WXGA	1360 x 768	47.7 kHz	60 Hz	○
SXGA	1280 x 1024	64.0 kHz	60 Hz	○
SXGA+	1400 x 1050	65.3 kHz	60 Hz	○
UXGA	1600 x 1200	75.0 kHz	60 Hz	○
1080p	1920 x 1080	67.5 kHz	60 Hz	—

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LC-80LE857U_757U_657U_E.indd 45 2013/02/23 16:35:22

Using the Internet

By connecting your TV to a broadband system, you can access the Internet from the TV.
- Use "AQUOS ADVANTAGE LIVE" to obtain the latest software and receive online user support. (See page 47.)
- You can enjoy a variety of streaming content and Internet applications. (See page 49.)

NOTE

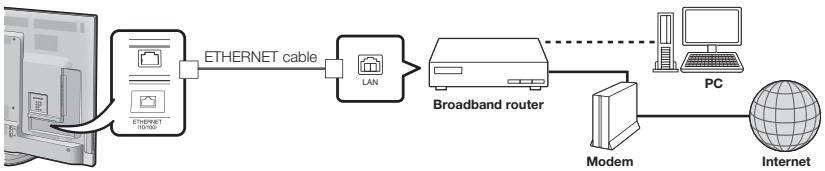
- You may not be able to view 3D images when accessing the Internet. (For the LE857U, LE757U, LE755U, LE657U and LE655U models)

Connecting to the Internet

- To connect your TV to the Internet, you must have a broadband Internet connection.
- If you do not have a broadband Internet connection, consult the store where you purchased your TV or ask your Internet service provider or telephone company.
- When an Internet connection is made, an Ethernet and wireless connection cannot be used at the same time. Use only one of the connection types.

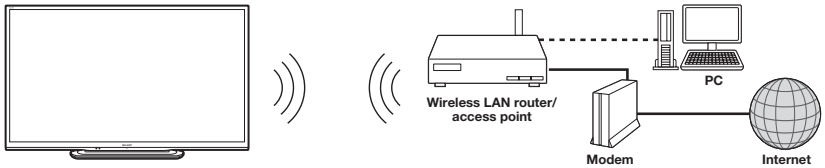
■ Using an ETHERNET cable

Use an ETHERNET cable (commercially available) to connect the ETHERNET terminal on the TV to your broadband router (commercially available).



■ Using the wireless LAN

This TV is equipped with a wireless LAN function.
For a wireless LAN connection, you must use "Wireless Setup" to connect the access point and TV.



NOTE

- This TV has a built-in wireless LAN function. Using a separate wireless USB LAN adapter may result in radio communications that do not comply with regulations on radio communications. Therefore, do not use a separate wireless LAN adapter.
- A wireless LAN connection and performance cannot be guaranteed for all residential environments. In the following cases, the wireless LAN signal may be poor or drop, or the connection speed may become slower.
  - When used in buildings made with concrete, reinforced steel, or metal
  - When placed near objects that obstruct the signal
  - When used with other wireless devices that emit the same frequency
  - When used in the vicinity of microwave ovens and other devices that emit a magnetic field, electrostatic charge, or electromagnetic interference
- When there is significant interference in the 2.4-GHz frequency (such as from other wireless LAN devices, Bluetooth® devices, 2.4-GHz cordless telephones, and microwave ovens), it is recommended that you use a wireless LAN router/access point that supports IEEE802.11a/n (5 GHz) and set the access point to transmit at 5 GHz. For setup details, see the operation manual of your access point.

Internet Setup

Perform the procedure below to make adjustments or to confirm the settings for accessing the Internet.

1. Press **MENU** to display the MENU screen, and then press **ENTER**.
2. Press ◀/▶ to select "Initial Setup", and then press **ENTER**.
3. Press ▲/▼ to select "Internet Setup", and then press **ENTER**.
4. Press ▲/▼ to select "Network Setup" or "Interactive Service", and then press **ENTER**.
   - Select "Network Setup" when you make general adjustments to connect to the Internet.
   - If you want to make settings to restrict access to the Internet, then select "Interactive Service".
5. Press ▲/▼ to select a specific item, and then press **ENTER**.
6. Press ▲/▼ (or ◀/▶) to select the desired setting, and then press **ENTER**.
7. Press **MENU** to exit.

Network Setup

You can connect your TV to the Internet using the setting item "Network Setup".

Auto Setup

Adjustments for network connection will be made automatically. Select "Wired" or "Wireless" and follow the instructions displayed on the screen.
- Automatic adjustments for wireless LAN connection can be made only for the WPS method.
  If your access point uses any other method, perform "Manual Setup".
  Select the desired connection method and follow the instructions shown on the display.

Manual Setup

You can make adjustments manually for network connection.

■ Connection Type

Select the connection type.

Wired: The signal is detected and setup is performed automatically. Use "IP Setup" to check and change the settings as necessary.

Wireless: Configure the access point settings on "Wireless Setup".

■ Wireless Setup

Make adjustments and confirm the settings necessary for wireless LAN connection (such as search for the access point and registration of it).

WPS push button: Allows the TV to automatically establish the connection using a button on the access point.

WPS PIN code: Sets up the connection by registering a PIN code for the access point.

Selecting wireless network: Searches for and selects the access point to be connected.

Registering wireless network: Allows you to make the connection by entering an SSID for the access point.

If your access point supports Wi-Fi Protected Setup (WPS push button method), it is recommended that you use this function for the wireless connection. You can press the WPS button on the access point to configure the settings automatically.
- The name of the WPS button function may differ depending on the access point. See the operation manual of the access point for details.

1. Confirm the current settings in "Connection Type".
   - If "Wired" is selected, press ◀/▶ to select "Wireless".
2. Press ▲/▼ to select "Wireless Setup", and then press **ENTER**.
   - Confirm the settings. If each setting item is correct, press **MENU** to exit.
   - If you are configuring the wireless setup for the first time or changing the settings, go to step 3.
3. Press ◀/▶ to select "Change", and then press **ENTER**.
4. Select the desired connection method and follow the instructions shown on the display.
5. When a connection is established, the connection details are displayed. Press **ENTER**.

NOTE

- Operations cannot be guaranteed when used with access points that do not have Wi-Fi® certification.
- A wireless LAN router/access point is required to connect the TV to the Internet using a wireless LAN. See the operation manual of your access point for setup.
- If your access point is set to a stealth mode (that prevents detection by other devices), you may not be able to establish a connection. In this case, disable the stealth mode on the access point.
- A stable connection speed is required to play back streaming content. Use an Ethernet connection if the wireless LAN speed is unstable.
- Before transferring to a third party or disposal, be sure to initialize the wireless LAN settings.
- Please follow the legislation in your country when using the wireless LAN outdoors.

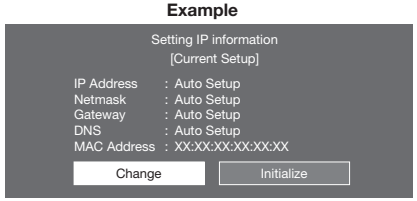
LC-80LE857U_757U_657U_E.indd 46 2013/02/21 13:36:05

■ **IP Setup**

You can make adjustments manually for the IP.

- Check that numbers are displayed for each setting.
- If there are any settings without numbers, specify the numbers by following the on-screen instructions.
- For information on how to enter text, see "Entering Text (Software Keyboard)".

Example



Connection Test

After the connecting and setting procedures have been completed, you can check that the preparation is correct. Press "Yes" to start the "Connection Test".

- When the test results are displayed, follow the instructions shown on the screen.

Interactive Service

If you do not want other people to connect to the Internet in your absence, you can make settings to keep the TV away from the Internet.

- Input the 4-digit secret number by using **0**-**9**.

Checking Your Internet Connection

■ **LE857U, LE757U, LE755U, LE657U and LE655U models**

1 Press **SmartCentral** to display the application window.

2 Press ◄/► to select "AQUOS ADVANTAGE LIVE", and then press **ENTER**.

■ **LE650U, C7500U and C6500U models**

Press **AAL** to display the AQUOS ADVANTAGE LIVE screen.

- You can aiso display the AQUOS ADVANTAGE LIVE screen by application window.

  - If "" or "" is displayed after you connect to the Internet, check your TV's network settings and connection.
  - When the AQUOS ADVANTAGE LIVE screen appears, now you are connected to the Internet.
  - You can also display the AQUOS ADVANTAGE LIVE screen by pressing **FAV APP** on the remote control unit. See page 49 for details.

NOTE

- If you have failed to connect to the Internet in the above operation, then an error message will appear. In this case, press **EXIT** to exit from the connected TV feature to make changes to the network settings.
- If you still cannot connect to the Internet, please consult your Internet service provider or telephone company.
- When an application is used, you cannot make settings for "Internet Setup". If you need to make the settings of "Internet Setup", press **EXIT** to exit from the connected TV feature.

■ **If you cannot connect to the Internet**

If the TV fails to connect to the Internet, then select "Network Setup" and;

- When the TV is in a wired LAN connection, make sure the values for "IP Setup" are all correctly set.
- In the case of a wireless LAN connection, check the settings of "Wireless Setup".

AQUOS Advantage Live

This function can be used to display up-to-date information and allow you to receive support service over the network.

■ **LE857U, LE757U, LE755U, LE657U and LE655U models**

1 Press **SmartCentral** to display the application window.

2 Press ◄/► to select "AQUOS ADVANTAGE LIVE", and then press **ENTER**.

■ **LE650U, C7500U and C6500U models**

1 Press **AAL** to display the AQUOS ADVANTAGE LIVE screen. (Go to step 3)

- You can aiso display the AQUOS ADVANTAGE LIVE screen by application window.

- You can also display the AQUOS ADVANTAGE LIVE screen by pressing **FAV APP** on the remote control unit. See page 49 for details.
- When you are not connected to the Internet, a network function explanation screen is displayed. The services displayed vary depending on circumstances.

3 Press ▲/▼/◄/► to select the desired service.

4 Press **EXIT** to exit from the connected TV feature.

NOTE

- The display may change as a result of a software update.

Entering Text (Software Keyboard)

When you are editing an input screen or specifying the Network settings used for accessing the Internet, enter text from the software keyboard.

NOTE

- You can enter up to 128 characters for text.
- Some special characters or diacritics may not be available depending on where you enter the text.

The text you enter is displayed as you type it in.
To move the cursor (the current input position), use "<=" or "=>" on the software keyboard.

While you are entering text, likely input conversion candidates are displayed based on what you typed in.

Caps Off/Caps Lock
If "alphabet" is selected, this switches characters between uppercase and lowercase.
Each time you press **ENTER**, the character type switches as shown below:
Caps Off: all the characters are lowercased
Caps Lock: all the characters are uppercased

Shift
Capitalizes the first character entered.

alphabet/Sign
Press **ENTER** to select the type of characters entered: alphabet, or sign.

Back space/Delete
Erases text one character at a time.

Enter
Applies the entered information and closes the software keyboard.

Space
Enters a space.

Clear
Erases the character string.

- When the cursor is somewhere in a line: the character string to the right of the cursor will be erased.
- When the cursor is at the right end of a line: the entire line will be erased.

Quit
Closes the software keyboard without applying the entered information.

Buttons on the remote control unit	Description
▲/▼/◄/►	Moves the focus. When moved at the far edge, the focus moves to the opposite edge.
ENTER	Performs the processing for the button currently in the focus.
EXIT	Closes the software keyboard without applying the original input elements for the entered text.
RETURN	When the cursor is at the end of a sentence, this acts as a back space.
0-9	Directly enters the single-byte number for that button.
A, B, C	When **A**, **B** or **C** is pressed on the remote control while the characters to be entered in the likely input conversion candidate are displayed in A, B or C on the keyboard, that character string is entered into the display field.
D	Enters a space

LC-80LE857U_757U_657U_E.indd 47 2013/02/21 14:31:34

Using the Browser

1 Press **SmartCentral** to display the application window.
- Press **SmartCentral** again to display a list of applications by category.

2 Press ◀/▶(or ▲/▼) to select the Web Browser icon, and then press **ENTER**.
- If you changed the display to the list of applications in step 1, select a category and then select the Web Browser icon.

■ Buttons for Using the Browser

VIEW MODE
- Each time you press **VIEW MODE** when a browser screen is shown, the display pattern toggles between a website-only screen and a TV+Web screen.

FAV APP1, 2, 3
- You can change the screen display method when a Web browser application is assigned to the **FAV APP** buttons. Each time a **FAV APP** button assigned to a browser application is pressed while a browser is open, the screen switches between Web-site only screen and TV+Web screen.

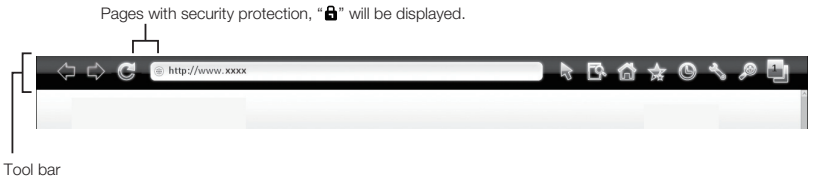
ENTER, ▲/▼/◀/▶
- Press ▲/▼/◀/▶ to select a link that you want to jump, and then press **ENTER**.

EXIT
- Press the button to return to the TV screen.

RETURN
- Press the button to return to the previous page.

D
- Display the toolbar.

NOTE
- You cannot play audio or movies in the browser screen while a TV+Web screen is displayed.
- When displaying TV+Web with a channel in which the V-Chip is enabled, the cursor keys on the remote control unit do not function.
- Restrictions apply to window display.



Selected item	Description
	Allows you to go back to the previous page.
	Allows you to go to the next page.
	Refreshes the page. Interrupts a page while it is loading.
	Switches between virtual mouse and spatial navigation modes. Switching modes also switches the display. Depending on the page displayed, switching this function may make it easier to use the browser.
	Opens a search window below the toolbar. You can use this to search for a word within the displayed page.
	Displays the home page. You can set the page displayed as your home page when the browser starts up. (See page 49.)
	Displays the bookmarks list.
	Displays your browsing history.
	Configures browser settings such as your home page and browsing security. (See page 49.)
	Zooms the display in or out.
	Restrictions apply to window display.

■ About links
- Web pages on the Internet often include "links" that allow you to jump to other web pages (or sites).
- "Links" can take various forms, including words or images, but they always work in the same way letting you jump to the link destination when you select them.
- Selected items (such as links of text input fields) are enclosed in a frame.
- You can jump from a "link" to the corresponding link destination.

DISCLAIMERS
SHARP corporation bears no responsibility regarding the content and quality of the content provided by the content serve provider.

CAUTION
- If the power is cut due to a power failure or the TV being unplugged while you are using the Internet, information such as bookmarks or cookies may not be saved correctly.

NOTE

When a security notification window is displayed:
- Press **ENTER** to close the window.
- This window appears when you visit a web page that has security protection, or when you move from a protected page to an unprotected page.
- In "Security" you can set whether or not this window is displayed. (See page 49.)

To users who access the Internet from a PC
- When you access the Internet from this TV, the procedures may not be the same as regular browser-based access on a PC.
- On some pages, video and audio, text or images may not be displayed correctly.

powered by espial

http://www.espial.com

Using the Toolbar

You can use the toolbar to control the browser and to specify settings.

1 Press **D** to control the toolbar.

2 Press ◀/▶ to select a function, and then press **ENTER**.

Browsing Web Contents

You can display the web content you want to enjoy.

1 Press **D** to display the toolbar.

2 Press ◀/▶ to move to the address area in the toolbar, and then press **ENTER**.
- The Enter Address menu is displayed.

3 Enter an address, and then press **ENTER**.
- The web content you want to view is displayed.

LC-80LE857U_757U_657U_E.indd 48 2013/02/21 13:36:05

Browser Settings

You can check or modify your browser settings from the Browser menu.

1 Press **D** to display the toolbar.
2 Press ◀/▶ to select "" in the toolbar, and then press **ENTER**.
3 Press ▲/▼ to select and confirm the item you want to set.
4 Press ▲/▼/◀/▶ to specify the required setting, and then press **ENTER**.
5 Press **D** to exit.

Home Page: You can set the page displayed as your home page when the browser starts up.
Encoding: You can select the desired encoding from the list below:
Western (ISO-8859-1)/Unicode (UTF-8)
Page Information: Displays information about the currently displayed page.
Security:
Secure sites:
When set to "Disabled", HTTPS sites cannot be accessed.
Security warnings:
When set to "Enabled", displays warning dialogs when going HTTP ↔ HTTPS.
Certificates: Display the list of certificates. You can choose to enable/disable a certificate.
• Disable certificate are shown unticked in the certificate list screen.
Cookies:
Accept all: Select this option to accept all cookies.
Reject all: Select this option when you do not want to accept cookies.
Delete All Cookies: Deletes all your cookies.

Using Keyboard and Mouse

You can use a keyboard or mouse for operating the TV while using the browser.
• When you use the USB devices, connect the device to the USB terminal on the TV.
• When you use the bluetooth device, make necessary settings with "Bluetooth Setup". (See page 29.) (For the LE857U, LE757U, LE755U, LE657U and LE655U models)

NOTE
• The keyboard and mouse can only be used on a browser screen.
The keyboard or mouse may not operate properly depending on the application being used.
• The software keyboard cannot be used by the keyboard and mouse connected via Bluetooth even on the browser screen.
• The bluetooth device may not operate properly depending on the device being used.

Using Applications via the Internet

By connecting the TV to the Internet, you can enjoy a variety of broadband content, including videos, music and photos.

Please check that the most current software is loaded on TV by selecting "Auto Update Setting" on "Software Update" (see page 30) or by visiting http://www.sharpusa.com/products/support/ to check for a download of the newest software version.

Use the application window to access your favorite Internet applications. Press **SmartCentral** to display the application window.
Follow the on-screen instructions for each application.
• When using this TV to access an Internet application for the first time, the Disclaimer appears on the screen. Press ▲/▼ to select "Agree", and then press **ENTER**. (You must select "Agree" to use the application.)
• Check the web site of the provider for details on setup and use of the functions.

NOTE
• If "" or "" is displayed after you connect to the Internet, check your TV's network settings and connection.
• Additional applications will be available in the future.
• These applications are provided by content providers. The available applications vary depending on your country or region.
• The delivery speed of applications varies depending on the network speed. Check the web site of the provider for details on application setup and other information.

Using the Application Window

During Dock Display

You can move the application icons and delete any unused icons.

Example

1 Select an application, and then press ▲.
2 Press ▲/▼ to select "Move App" or "Delete App", and then press **ENTER**.

■ Move the Icons
You can move the icons of the more commonly used applications closer to the left.
Press ◀/▶ to move the icon to the desired location.

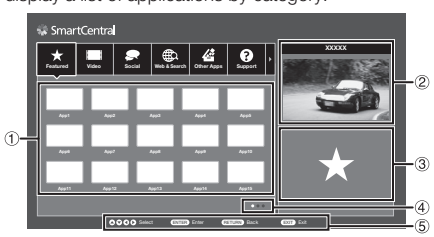
■ Delete an Application
Select "Delete App" to delete the icon.

■ Saving Favorite Applications
You can set your favorite applications to the **FAV APP1**, **2**, and **3** buttons on the remote control for easier startup.
The applications whose icons are moved onto ①, ② and ③ during Dock Display will be assigned to the **FAV APP 1**, **2** and **3** buttons respectively.

NOTE
• The SmartCentral icon cannot be moved or deleted.

During Gallery Display

During Dock display, press **SmartCentral** again to display a list of applications by category.



1 Press ◀/▶ to select a category, and then press **ENTER** or ▼.
2 Press ▲/▼/◀/▶ to select an application, and then press **ENTER**.
①Displays a list of applications for the selected category that can be displayed on the TV.
Press **ENTER** to add or delete applications to or from the application window and favorites.
②Displays the image now playing.
③Provides a description of the selected application.
④Displayed when there are multiple pages. Press ◀/▶ to change pages.
⑤Guide display of required operation buttons.

Deactivating Netflix Function

You can deactivate the Netflix function. Refer to "Information" > "Netflix Help" and select "Deactivate".
• To confirm the Netflix status, check the information displayed on the screen and click "OK".

Deactivating the VUDU Function

To deactivate the VUDU function, refer to "Information" > "VUDU Help" and select "Yes".

LC-80LE857U_757U_657U_E.indd 49 2013/02/21 13:36:06

Using the Internet

When you access the Internet application for the first time, the following appears.
• This message is available only in English.

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Examples of Application Logos

LC-80LE857U_757U_657U_E.indd 50 2013/02/21 13:36:06

Appendix

Removing the Stand

• Before detaching (or attaching) the stand, make sure to turn off the TV and unplug the AC cord.

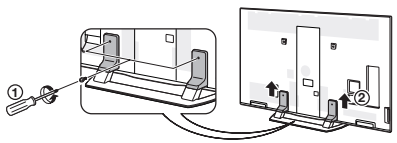
CAUTION

• Do not remove the stand from the TV unless using an optional wall mount bracket to mount it.

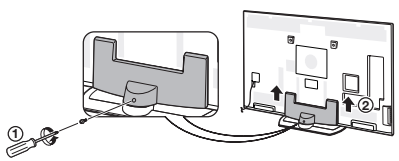
■ LE857U models

1 ① Loosen the screw(s) used to secure the stand cover.
② Remove the cover.

LC-80LE857U

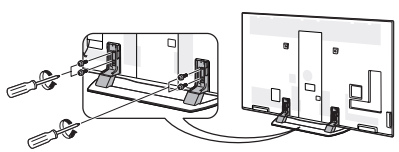


LC-70LE857U/LC60LE857U

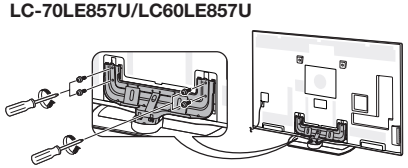


2 Unfasten the four screws used to secure the stand in place.

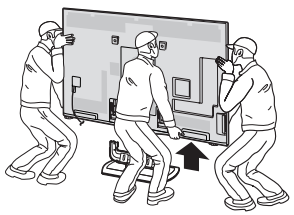
LC-80LE857U



LC-70LE857U/LC60LE857U



3 Detach the stand from the TV.



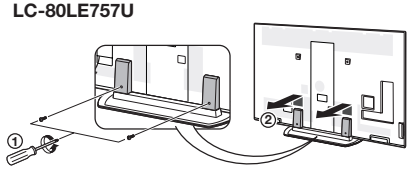
NOTE

• Be sure to always carry the TV by two people (90/80 inch models: three people) holding it with two hands.

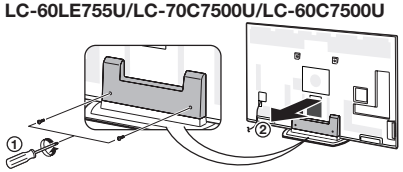
■ LE757U, LE755U and C7500U models

1 ① Loosen the screws used to secure the stand cover.
② Move the stand cover upward, and pull it toward you to remove.

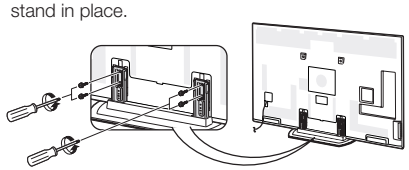
LC-80LE757U



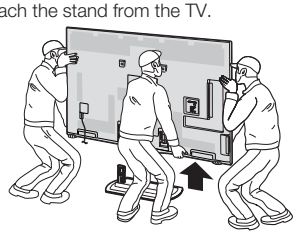
LC-70LE757U/LC-60LE757U/LC-70LE755U/ LC-60LE755U/LC-70C7500U/LC-60C7500U



2 Unfasten the four screws used to secure the stand in place.



3 Detach the stand from the TV.

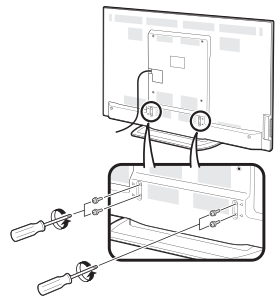


NOTE

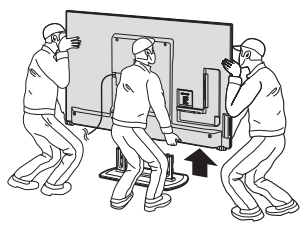
• Be sure to always carry the TV by two people (90/80 inch models: three people) holding it with two hands.

■ LE657U, LE655U, LE650U and C6500U models

1 Unfasten the four screws used to secure the stand in place.



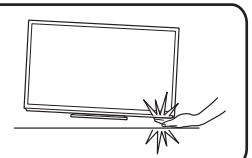
2 Detach the stand from the TV.



NOTE

• Be sure to always carry the TV by two people (90/80 inch models: three people) holding it with two hands.

• In the installation procedure, be careful not to catch your fingers between the TV set and the floor.



LC-80LE857U_757U_657U_E.indd 51 2013/02/27 16:09:57

Setting the TV on the Wall

■ Using an optional bracket to mount the TV (LC-70LE857U/LC-60LE857U/LC-70LE757U/ LC-60LE757U/LC-70LE755U/LC-60LE755U/LC-70LE657U/LC-60LE657U/LC-70LE655U/ LC-60LE655U/LC-70LE650U/LC-60LE650U/LC-70C7500U/LC-60C7500U/LC-70C6500U/ LC-60C6500U)

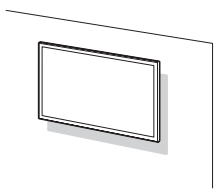
- You can ask a qualified service professional about using an optional AN-52AG4 bracket to mount the TV on the wall.
- Carefully read the instructions that come with the bracket before beginning work.

CAUTION

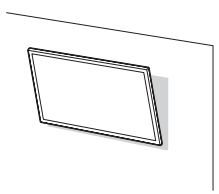
- **This TV should be mounted on the wall only with the wall mount bracket AN-52AG4 (SHARP). The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.**
- **Installing the TV requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.**

Hanging on the wall

AN-52AG4 wall mount bracket.
(See the bracket instructions for details.)



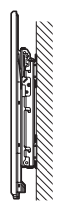
Vertical mounting



Angular mounting

About setting the TV angle

AN-52AG4

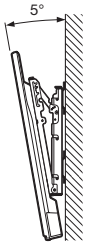


LC-70LE857U/LC-70LE757U/ LC-70LE755U/LC-70C7500U

- The center of the display: $^{13}/_{64}$ inch (5 mm) above the "c" position.

LC-60LE857U/LC-60LE757U/ LC-60LE755U/LC-60C7500U

- The "c" position is at the center of the display.



LC-70LE657U/LC-70LE655U/ LC-70LE650U/LC-70C6500U

- The center of the display: $^{25}/_{64}$ inch (10 mm) above the "c" position.

LC-60LE657U/LC-60LE655U/ LC-60LE650U/LC-60C6500U

- The "e" position is at the center of the display.

- Refer to the operation manual of AN-52AG4 for details.

■ Using the wall mount kit to mount the TV

The wall mount kit (sold separately) allows you to mount the TV on the wall.
For detailed information on installing the wall mount, see the instructions provided with the product.
We recommend you to contact a technician for assistance when installing it.
SHARP is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.

CAUTION

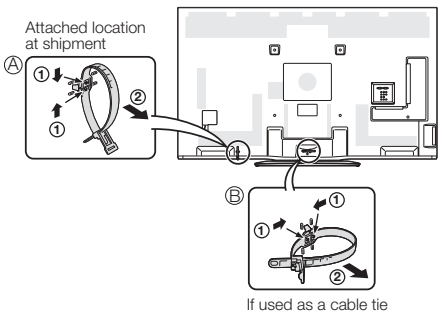
- **Install your wall mount on a solid wall perpendicular to the floor.**
  When you want to attach the wall mount to surfaces other than plaster board, please contact your nearest retailer/adviser for additional information. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury. Always have two people mount the TV on a wall.

NOTE

- Due to the terminal configuration on this TV, when you wall-mount this model, make sure there is enough space between the wall and the TV for the cables.
- To use this TV mounted on a wall, remove the AC cord holder on the rear of the TV, and then use the screws supplied with the wall mount bracket to secure the bracket to the rear of the TV.

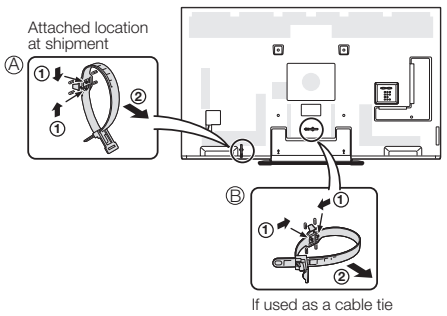
■ LC-70LE857U/ LC-60LE857U

- The location of the AC cord holder differs depending on whether it is in its shipment location Ⓐ or has been used as a cable tie Ⓑ.

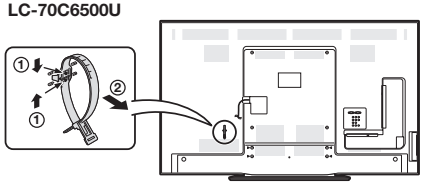


■ LC-70LE757U/LC-60LE757U/LC-70LE755U/ LC-60LE755U/LC-70C7500U/ LC-60C7500U

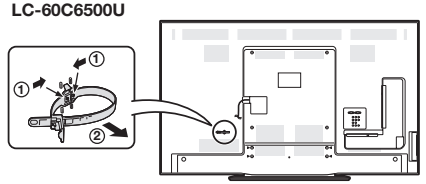
- The location of the AC cord holder differs depending on whether it is in its shipment location Ⓐ or has been used as a cable tie Ⓑ.



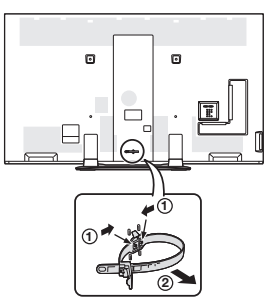
■ LC-70LE657U/LC-70LE655U/LC-70LE650U/ LC-70C6500U



■ LC-60LE657U/LC-60LE655U/LC-60LE650U/ LC-60C6500U

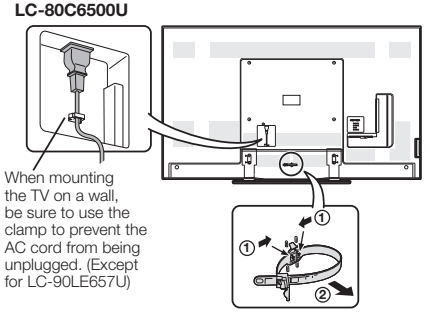


■ LC-80LE857U/LC-80LE757U



If used as a cable tie

■ LC-90LE657U/LC-80LE657U/LC-80LE650U/ LC-80C6500U



When mounting the TV on a wall, be sure to use the clamp to prevent the AC cord from being unplugged. (Except for LC-90LE657U)

If used as a cable tie

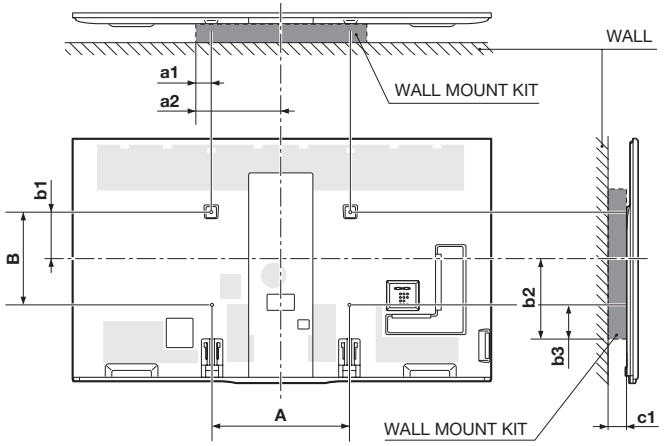
LC-80LE857U_757U_657U_E.indd 52 2013/02/26 16:15:51

Appendix

Wall Mount Kit Specifications

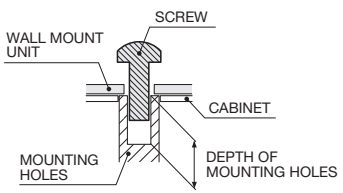
Standard dimensions for wall mount kits are shown below.

• The illustration is based on the LC-80LE857U model as an example.



		LC-90LE657U	LC-80LE857U/ LC-80LE757U	LC-80LE657U/ LC-80LE650U/ LC-80C6500U	LC-70LE857U/ LC-70LE757U/ LC-70LE755U/ LC-70C7500U	LC-70LE657U/ LC-70LE655U/ LC-70LE650U/ LC-70C6500U	LC-60LE857U/ LC-60LE757U/ LC-60LE755U/ LC-60C7500U	LC-60LE657U/ LC-60LE655U/ LC-60LE650U/ LC-60C6500U
VESA screw hole specs (A-B)		23 5/8 (600) – 15 3/4 (400)			15 3/4 (400) – 15 3/4 (400)			
Width	a1	1 37/64 (40)	2 61/64 (75)					
	a2	13 25/64 (340)	14 49/64 (375)		10 27/32 (275)			
Height	b1	7 7/8 (200)		10 41/64 (270)	7 7/8 (200)	7 31/64 (190)	7 7/8 (200)	9 1/16 (230)
	b2	14 49/64 (375)	13 19/32 (345)	11 1/32 (280)	14 11/64 (360)	10 41/64 (270)	12 39/64 (320)	9 1/16 (230)
	b3	6 57/64 (175)	5 23/32 (145)	5 59/64 (150)	6 5/16 (160)	2 3/8 (60)	4 47/64 (120)	2 3/8 (60)
c1		3 5/32 (80)			2 49/64 (70)			

a1: Maximum distance from the mounting hole
a2: Maximum distance from the TV's center
b1: Distance between the TV's center and the mounting hole
b2: Maximum distance from the TV's center
b3: Maximum distance from the mounting hole
c1: Minimum gap



Do not install the wall mount kit while your TV is turned on. It may result in personal injury due to electric shock.

For the screws, refer to the table shown below.

	90/80 inch models	70/60 inch models
Standard screws	M8 (Use 1.25 pitch screws.)	M6 (Use 1.0 pitch screws.)
Length(Depth of mounting holes)	15/32 (12)	
Quantity	4 pcs.	

NOTE

- Do not mount the TV at a tilt.
- To use this TV mounted on a wall, remove the cable tie as needed.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard length. Screws that are too long may cause damage to the inside of the TV.
- Do not fasten the screws too firmly or loosely. This may damage the product or cause the product to fall, leading to personal injury. SHARP is not liable for these kinds of accidents.
- SHARP is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.

LC-80LE857U_757U_657U_E.indd 53 2013/02/26 16:15:51

Troubleshooting

Problem	Possible Solution
• No power	• Check if you pressed **POWER** on the remote control unit. ➡ **Page 16** • Is the AC cord disconnected? ➡ **Page 9** • Has the power been turned on? ➡ **Page 16**
• Unit cannot be operated.	• External influences such as lightning, static electricity, may cause improper operation. In this case, operate the unit after first turning off the power of the TV or unplugging the AC cord and replugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Is the equipment to be operated by the remote control unit set correctly? Press **TV** to set the remote control unit to the setting for operating the TV. • Are batteries inserted with polarity (+, −) aligned? ➡ **Page 10** • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated near the remote control sensor? • Is "RC Control Lock" selected in "Operation Lock Out"? ➡ **Page 27**
• Picture is cut off/with sidebar screen.	• Is the image position correct? ➡ **Pages 27 and 44** • Are screen mode adjustments such as picture size made correctly? ➡ **Pages 20 and 21**
• Strange color, light color, or color misalignment	• Adjust the picture tone. ➡ **Pages 24 and 25** • Is the room too bright? The picture may look dark in a room that is too bright.
• Power is suddenly turned off.	• Is the sleep timer set? ➡ **Page 19** • Check the power control settings. ➡ **Page 26** • The unit's internal temperature has increased. Remove any objects blocking vent or clean.
• No picture	• Is connection to other components correct? ➡ **Pages 13 to 15 and 41** • Is the correct input selected? ➡ **Pages 13 and 18** • Is "On" selected in "Audio Only"? ➡ **Page 26** • If the PC image is not displayed, check the following: - When connecting a laptop PC to the TV, check that display output mode of the PC is set to external monitor. - Check the resolution setting on the PC. Is a non-compatible signal being input? ➡ **Page 45**
• Picture quality of HD programs is poor.	• To enjoy HD images from external equipment, you are required to set up HDMI connection or component connection. • If the program content is not of HD quality, HD images cannot be displayed. Check that the program you are viewing provides HD images. • The HD cable/satellite set-top box may need to be configured to output HD images via cable/satellite. • The cable/satellite broadcast may not support a signal resolution of 1080p.
• The TV sometimes makes a cracking sound.	• This is not a malfunction. This happens when the cabinet slightly expands and contracts according to change in temperature. This does not affect the TV's performance.
• The AQUOS ADVANTAGE LIVE cannot be displayed.	• Is the ETHERNET cable connected correctly? ➡ **Page 46** • Check the settings of "Internet Setup". ➡ **Pages 46 to 47**
• Some Internet functions used on a PC are not available from the TV.	• The TV has only limited functions compared with regular PC browsers. ➡ **Page 48**

Problem	Possible Solution
• No sound	• Is connection to other components correct? ➡ **Pages 13 to 15 and 41** • Is the volume too low? ➡ **Page 18** • Is "Variable" selected in "Output Select"? ➡ **Page 27** • Have you pressed **MUTE** on the remote control unit? ➡ **Page 18** • Check the audio output of the connected external equipment. Is the volume too low or muted? • When external equipment is connected via an HDMI cable, you may need to configure the audio to be output through the HDMI cable. • When audio is not output from external equipment connected to the PC IN or HDMI IN 2 terminal, check the "Audio Select" setting. ➡ **Page 44** • Even when external equipment is connected using an HDMI-certified cable, an audio cable connection may be required depending on the type of equipment and the media being played back. In this case, in addition to connecting an HDMI-certified cable to the HDMI IN 2 terminal, connect a Ø 3.5 mm stereo minijack cable to the AUDIO IN terminal and set "Audio Select" to "HDMI+Analog". ➡ **Page 44** • When connecting a PC via an HDMI-certified cable, check the following: - Is the audio output of the PC configured correctly? Check the audio output settings and output audio format in Sound Properties on the PC. The audio formats compatible with this TV are PCM, Dolby Digital and DTS. With other formats, audio cannot be output. - Depending on the board, only video signals may be output. In this case, in addition to connecting an HDMI-certified cable to the HDMI IN 2 terminal, connect a Ø 3.5 mm stereo minijack cable to the AUDIO IN terminal and set "Audio Select" to "HDMI+Analog". ➡ **Page 44** • If you are using a DVI-HDMI conversion cable to connect external equipment to the TV, check the following: - Is an audio cable connected? The DVI-HDMI conversion cable is for video only. Connect a Ø 3.5 mm stereo minijack cable to listen to the audio. - Is HDMI IN 2 being used? When the TV is connected to another HDMI IN terminal, the audio and video are not output together even if a Ø 3.5 mm stereo minijack cable is connected to the shared AUDIO IN terminal for PC IN and HDMI IN 2. - Check the "Audio Select" setting. Set "Audio Select" to "HDMI+Analog". ➡ **Page 44**

Troubleshooting - 3D Images (for the LE857U, LE757U, LE755U, LE657U and LE655U models)

Problem	Possible Solution
• 3D images are not displayed.	• Is "3D Auto Change" set to "Off"? Press **3D** to switch to 3D mode. ➡ **Page 33** • If "3D Auto Change" is set to "Mode 1" or "Mode 2" but no 3D images are displayed, check the display format of the content being viewed. Some 3D image signals may not be recognized as 3D images automatically. Press **3D** to select the appropriate display format for the 3D image. ➡ **Pages 33 to 34** • Is the power of the 3D Glasses turned on? • Are the 3D Glasses set to 2D mode?

For further details, refer to the operation manual of your 3D Glasses.

LC-80LE857U_757U_657U_E.indd 54 2013/02/21 13:36:06

Troubleshooting - Error Message

The example of an error message displayed on a screen	Error code	Possible Solution
• Failed to receive broadcast.	**E202**	• Check the antenna cable. Check that the antenna is correctly setup.
• No broadcast now.	**E203**	• Check the broadcast time in the program guide.
• An incompatible audio signal has been received. Check the output device settings.	**–**	• This message is displayed when an audio format other than PCM, DTS or Dolby Digital is input. - Set the audio output format of connected external HDMI equipment to PCM, DTS or Dolby Digital. - Refer to the operation manual of the external equipment for setting details.

Information on the Software License for This Product

Software License

You can read the software licenses in the on-screen display menu. Refer to "Information" > "Software License".

■ **Software composition**

The software included in this product is comprised of various software components whose individual copyrights are held by SHARP or by third parties.

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the front panel to malfunction.
  Storage temperature: –4°F to +140°F (–20°C to +60°C)

CLEARING THE SECRET NUMBER

If you forget the secret number, clear the secret number using the following procedure.

1 Select an item from the list below to display the secret number input screen. (For operating the on-screen display menu, see page 22.)
- "Color system" (← "Terminal Setting" ← System Options menu).
- "EZ Setup" or "Reset" (← Initial Setup menu).
- "CH Setup" (←"Broadcasting Setup" ← Initial Setup menu).
- "Parental CTRL" (← "Individual Setup" ← Initial Setup menu).
- "Interactive Service" (← "Internet Setup" ← Initial Setup menu).
- "Software Update" (←Information menu).

2 Press and hold both **CH∧** and **VOL+** on the TV simultaneously until the message appears on the screen.

The secret number is | | | | | .

NOTE

- As a precautionary measure, make a note of your secret number above, and keep it in a safe place.

LC-80LE857U_757U_657U_E.indd 55 2013/02/21 13:36:06

Specifications

TV

Item			Model: LC-80LE857U	Model: LC-70LE857U	Model: LC-60LE857U
LCD panel	Size		80″ Class (80″ Diagonal)	70″ Class (69 1/2″ Diagonal)	60″ Class (60 1/32″ Diagonal)
	Resolution		2,073,600 pixels (1,920 × 1,080)		
TV Function	TV-standard (CCIR)		American TV Standard ATSC/NTSC System		
	Receiving Channel	VHF/UHF	VHF 2-13ch, UHF 14-69ch		
		CATV	1-135ch (non-scrambled channel only)		
		Digital Terrestrial Broadcast (8VSB)	2-69ch		
		Digital cable*1 (64/256 QAM)	1-135ch (non-scrambled channel only)		
	Audio multiplex		BTSC System		
Audio out			10W × 2 + 15W (WF)		
Terminals	Back panel vertical inputs	HDMI IN 1	HDMI in with HDCP, ARC		
		HDMI IN 2	HDMI in with HDCP, Audio in (Ø 3.5 mm stereo jack)		
		HDMI IN 3	HDMI in with HDCP		
		HDMI IN 4	HDMI in with HDCP, MHL		
		AUDIO OUT	Audio out (Ø 3.5 mm stereo jack)		
		USB 1*2	Photo/Music/Video mode, Software update, USB keyboard/mouse, Wallpaper Picture		
	Back panel surface inputs	COMPONENT IN	COMPONENT in		
		VIDEO IN 1	AV in		
		VIDEO IN 2	AV in		
		PC IN	ANALOG RGB (PC) in (15-pin mini D-sub female connector), Audio in (Ø 3.5 mm stereo jack)		
		RS-232C	9-pin D-sub male connector		
	Back panel horizontal inputs	ANT/CABLE	75 Ω Unbalance, F Type × 1 for Analog (VHF/UHF/CATV) and Digital (AIR/CABLE)		
		AUDIO IN	Audio in (Ø 3.5 mm stereo jack)		
		DIGITAL AUDIO OUT	Optical Digital audio out × 1 (PCM/Dolby Digital/DTS)		
		ETHERNET	Network connector		
		USB 2*2	Photo/Music/Video mode, Software update, USB keyboard/mouse, Wallpaper Picture		
OSD language			English/French/Spanish		
Power Requirement			AC 120 V, 60 Hz		
On Mode Power			111 W	97 W	79 W
Power Consumption			306 W (0.1 W Standby with AC 120 V)	227 W (0.1 W Standby with AC 120 V)	187 W (0.1 W Standby with AC 120 V)
Weight		TV + stand	148.8 lbs./67.5 kg	108.0 lbs./49.0 kg	88.2 lbs./40.0 kg
		TV only	135.6 lbs./61.5 kg	93.7 lbs./42.5 kg	72.8 lbs./33.0 kg
Dimensions*3 (W × H × D) (inch)		TV + stand	71 55/64 × 43 7/16 × 17 29/64	62 9/64 × 38 15/64 × 15 11/64	54 1/4 × 33 25/64 × 15 11/64
		TV only	71 55/64 × 41 63/64 × 2 21/64	62 9/64 × 36 45/64 × 2 9/32	54 1/4 × 31 57/64 × 2 9/32
Operating temperature			+32°F to +104°F (0°C to +40°C)		

*1 Emergency alert messages via Cable are unreceivable.
*2 Skype™ is available for the USB terminal. See page 11 for details.
*3 The dimensional drawings are shown on the inside back cover.

Item			Model: LC-80LE757U	Model:LC-70LE757U/ LC-70LE755U/LC-70C7500U	Model: LC-60LE757U/ LC-60LE755U/LC-60C7500U
LCD panel	Size		80″ Class (80″ Diagonal)	70″ Class (69 1/2″ Diagonal)	60″ Class (60 1/32″ Diagonal)
	Resolution		2,073,600 pixels (1,920 × 1,080)		
TV Function	TV-standard (CCIR)		American TV Standard ATSC/NTSC System		
	Receiving Channel	VHF/UHF	VHF 2-13ch, UHF 14-69ch		
		CATV	1-135ch (non-scrambled channel only)		
		Digital Terrestrial Broadcast (8VSB)	2-69ch		
		Digital cable*1 (64/256 QAM)	1-135ch (non-scrambled channel only)		
	Audio multiplex		BTSC System		
Audio out			10W × 2 + 15W (WF)		
Terminals	Back panel vertical inputs	HDMI IN 1	HDMI in with HDCP, ARC		
		HDMI IN 2	HDMI in with HDCP, Audio in (Ø 3.5 mm stereo jack)		
		HDMI IN 3	HDMI in with HDCP		
		HDMI IN 4	HDMI in with HDCP, MHL		
		AUDIO OUT	Audio out (Ø 3.5 mm stereo jack)		
		USB 1*2	Photo/Music/Video mode, Software update, USB keyboard/mouse, Wallpaper Picture		
	Back panel surface inputs	COMPONENT IN	COMPONENT in		
		VIDEO IN 1	AV in		
		VIDEO IN 2	AV in		
		PC IN	ANALOG RGB (PC) in (15-pin mini D-sub female connector), Audio in (Ø 3.5 mm stereo jack)		
		RS-232C	9-pin D-sub male connector		
	Back panel horizontal inputs	ANT/CABLE	75 Ω Unbalance, F Type × 1 for Analog (VHF/UHF/CATV) and Digital (AIR/CABLE)		
		AUDIO IN	Audio in (Ø 3.5 mm stereo jack)		
		DIGITAL AUDIO OUT	Optical Digital audio out × 1 (PCM/Dolby Digital/DTS)		
		ETHERNET	Network connector		
		USB 2*2	Photo/Music/Video mode, Software update, USB keyboard/mouse, Wallpaper Picture		
OSD language			English/French/Spanish		
Power Requirement			AC 120 V, 60 Hz		
On Mode Power			111 W	97 W	79 W
Power Consumption			239 W (0.1 W Standby with AC 120 V)	227 W (0.1 W Standby with AC 120 V)	187 W (0.1 W Standby with AC 120 V)
Weight		TV + stand	145.5 lbs./66.0 kg	100.3 lbs./45.5 kg	79.4 lbs./36.0 kg
		TV only	135.6 lbs./61.5 kg	93.7 lbs./42.5 kg	71.7 lbs./32.5 kg
Dimensions*3 (W × H × D) (inch)		TV + stand	71 55/64 × 43 5/32 × 17 17/32	62 9/64 × 37 49/64 × 14 11/64	54 1/4 × 32 61/64 × 14 11/64
		TV only	71 55/64 × 41 63/64 × 2 21/64	62 9/64 × 36 45/64 × 2 9/32	54 1/4 × 31 57/64 × 2 9/32
Operating temperature			+32°F to +104°F (0°C to +40°C)		

- As part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.
- On Mode Power Consumption is measured according to Energy Star program requirements for televisions.

LC-80LE857U_757U_657U_E.indd 56 2013/02/21 13:36:06

Specifications

Item			Model: LC-90LE657U	Model: LC-80LE657U/ LC-80LE650U/LC-80C6500U	Model: LC-70LE657U/ LC-70LE655U/LC-70LE650U/ LC-70C6500U	Model: LC-60LE657U/ LC-60LE655U/LC-60LE650U/ LC-60C6500U
LCD panel	Size		90″ Class (90 $^{1}/_{64}$″ Diagonal)	80″ Class (80″ Diagonal)	70″ Class (69 $^{1}/_{2}$″ Diagonal)	60″ Class (60 $^{1}/_{32}$″ Diagonal)
	Resolution		2,073,600 pixels (1,920 × 1,080)			
TV Function	TV-standard (CCIR)		American TV Standard ATSC/NTSC System			
	Receiving Channel	VHF/UHF	VHF 2-13ch, UHF 14-69ch			
		CATV	1-135ch (non-scrambled channel only)			
		Digital Terrestrial Broadcast (8VSB)	2-69ch			
		Digital cable*1 (64/256 QAM)	1-135ch (non-scrambled channel only)			
	Audio multiplex		BTSC System			
Audio out			10W × 2			
Terminals	Back panel vertical inputs	HDMI IN 1	HDMI in with HDCP, ARC			
		HDMI IN 2	HDMI in with HDCP, Audio in (Ø 3.5 mm stereo jack)			
		HDMI IN 3	HDMI in with HDCP			
		HDMI IN 4	HDMI in with HDCP, MHL			
		AUDIO OUT	Audio out (Ø 3.5 mm stereo jack)			
		USB 1*2	Photo/Music/Video mode, Software update, USB keyboard/mouse, Wallpaper Picture			
	Back panel surface inputs	COMPONENT IN	COMPONENT in			
		VIDEO IN 1	AV in			
		VIDEO IN 2	AV in			
		PC IN	ANALOG RGB (PC) in (15-pin mini D-sub female connector), Audio in (Ø 3.5 mm stereo jack)			
		RS-232C	9-pin D-sub male connector			
	Back panel horizontal inputs	ANT/CABLE	75 Ω Unbalance, F Type × 1 for Analog (VHF/UHF/CATV) and Digital (AIR/CABLE)			
		AUDIO IN	Audio in (Ø 3.5 mm stereo jack)			
		DIGITAL AUDIO OUT	Optical Digital audio out × 1 (PCM/Dolby Digital/DTS)			
		ETHERNET	Network connector			
		USB 2*2	Photo/Music/Video mode, Software update, USB keyboard/mouse, Wallpaper Picture			
OSD language			English/French/Spanish			
Power Requirement			AC 120 V, 60 Hz			
On Mode Power			138 W	111 W	98 W	85 W
Power Consumption			381 W (0.1 W Standby with AC 120 V)	306 W (0.1 W Standby with AC 120 V)	228 W (0.1 W Standby with AC 120 V)	188 W (0.1 W Standby with AC 120 V)
Weight		TV + stand	150.0 lbs./68.0 kg	124.6 lbs./56.5 kg	82.7 lbs./37.5 kg	61.7 lbs./28.0 kg
		TV only	141.1 lbs./64.0 kg	115.7 lbs./52.5 kg	76.1 lbs./34.5 kg	55.1 lbs./25.0 kg
Dimensions*3 (W × H × D) (inch)		TV + stand	80 $^{7}/_{8}$ × 48 $^{61}/_{64}$ × 17 $^{3}/_{32}$	71 $^{15}/_{16}$ × 43 $^{43}/_{64}$ × 17 $^{17}/_{32}$	62 $^{39}/_{64}$ × 38 $^{19}/_{64}$ × 14 $^{11}/_{64}$	54 $^{19}/_{64}$ × 33 $^{1}/_{2}$ × 14 $^{11}/_{64}$
		TV only	80 $^{7}/_{8}$ × 47 $^{11}/_{16}$ × 4 $^{37}/_{64}$	71 $^{15}/_{16}$ × 42 $^{23}/_{32}$ × 3 $^{25}/_{64}$	62 $^{39}/_{64}$ × 37 $^{21}/_{64}$ × 3 $^{9}/_{32}$	54 $^{19}/_{64}$ × 32 $^{17}/_{32}$ × 3 $^{1}/_{32}$
Operating temperature			+32°F to +104°F (0°C to +40°C)			

LC-80LE857U_757U_657U_E.indd 57 2013/02/27 10:59:34

Wireless LAN

This TV has received the following certifications.
- Wi-Fi CERTIFIED™ (certification program from the Wi-Fi Alliance®)
- Wi-Fi Protected Setup™ (certification program from the Wi-Fi Alliance®)

FCC
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operated in conjunction with any other antenna or transmitter.
The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems;
The maximum antenna gain permitted (for devices in the bands 5250-5350 MHz and 5470-5725 MHz) to comply with the e.i.r.p. limit; and High-power radars are allocated as primary users (meaning they have priority) of the bands 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

COFETEL
This equipment operates on a secondary basis and, consequently, must accept harmful interference, including from station of the same kind, and may not cause harmful interference to systems operating on a primary basis.
CONTAINS TRANSMITTER MODULE COFETEL ID: RCPSHTW11-1252
Brand: SHARP
Model: TWFM-B005D

Specification	
Standard	IEEE 802.11a/b/g/n
Frequency Band	2412-2484 MHz 5150-5850 MHz
Security	Static WEP (64/128 bit key Index 1 only) WPA-PSK (TKIP) WPA2-PSK (AES)
Modulation	DBPSK@1Mbps DQPSK@2Mbps CCK@5.5/11Mbps BPSK@6/9 Mbps QPSK@12/18Mbps 16-QAM@24Mbps 64-QAM@48/54Mbps and above, Rx up to 300Mbps

Bluetooth

IMPORTANT SAFETY INSTRUCTIONS

Notes on Radio Wave Certification in the U.S.A. and Canada
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

"This transmitter must not be co-located or operated in conjunction with any other anntenna or transmitter."

FCC/INDUSTRY CANADA NOTICE
This device complies with Part 15 of FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.
This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exprosure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

FCC CAUTION
Changes or modifications not expressly approved by Hosiden responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
___ Reorient or relocate the receiving antenna.
___ Increase the separation between the equipment and receiver.
___ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
___ Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003

Le présent appareil est conforme aux la prtie 15 des règles de la FCC et CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'uitilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d'exposition dans le Supplément C à OET65 et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation du débit d'absorption spécifique (DAS).

Cet appareil numérique de la classe B est conforme à la norme NMB-3 du Canada.

Notas sobre la Certificación de Radiodifusión en México
COFETEL: RCPSHDB12-1487
Nombre de la marca del módulo con licencia: Sharp Corporation
Nombre de modelo del módulo con licencia: DBUB-S705
Módulo DBUB-S705 instalado adentro de esta gafas

PRECAUCIÓN
"La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada."

Número de licencia para la certificación de radiodifusión
Estados Unidos CONTAINS FCC ID: VIYARC0517
Canadá CONTAINS IC: 7305A-ARC0517

Specification	
Ver. name	Ver. 3.0+EDR
profile name	HID

LC-80LE857U_757U_657U_E.indd 58 2013/02/23 16:35:55

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- SmartCentral is a registered trademark of Sharp Corporation.

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- The Wi-Fi Protected Setup Mark is a mark of the Wi-Fi Alliance.

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- This product includes DLNA Software 'DiXiM' developed by DigiOn, Inc.

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LC-80LE857U_757U_657U_E.indd 59 2013/02/21 13:36:07

Calling for Service

For location of the nearest Sharp Authorized Service, or to obtain product literature, accessories, supplies, or customer assistance, please call 1-800-BE-SHARP.

LIMITED WARRANTY

CONSUMER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand Liquid Crystal Display product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product or if the serial number or model number affixed to the Product has been removed, defaced, changed, altered or tampered with. This warranty does not cover installation or signal reception problems. This limited warranty will not apply if the Product has been or is being used in a commercial setting or application; this warranty is meant solely for the non-commercial, household use of the Product by consumers in their home or residence. If you intend to or already use this Product for commercial purposes or in a commercial setting, there are warranties available to cover your use of this Product, the terms of which may vary. Please contact **1-888-GO-SHARP** for further information.

In order to enforce your rights under this limited warranty, you should follow the steps set forth below. You must be able to provide proof of purchase to the servicer, which proof must include the date of purchase.

To the extent permitted by applicable state law, the warranties set forth are in lieu of, and exclusive of, all other warranties, express or implied. Specifically ALL OTHER WARRANTIES OTHER THAN THOSE SET FORTH ABOVE ARE EXCLUDED, ALL EXPRESS AND IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR USE, AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. IF, UNDER APPLICABLE STATE LAW, IMPLIED WARRANTIES MAY NOT VALIDLY BE DISCLAIMED OR EXCLUDED, THE DURATION OF SUCH IMPLIED WARRANTIES IS LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

The warranties given herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser and only for the time periods set forth herein. No other representations or promises made by anyone are permitted. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. Sharp does not warrant nor shall Sharp be liable, or in any way
responsible, for Products which have been subject to abuse (including, but not limited to, improper voltage), accident, misuse, negligence, lack of reasonable care, alteration, modification, tampering, misuse, improper operation or maintenance or any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than a Sharp authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow limits on warranties or on remedies for breach in certain transactions; in such states, the limits herein may not apply.

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND PUERTO RICO.

Model Specific Section

Your Product Model Number & Description:	LC-80LE857U/LC-70LE857U/LC-60LE857U/LC-80LE757U/LC-70LE757U/ LC-60LE757U/LC-70LE755U/LC-60LE755U/LC-90LE657U/LC-80LE657U/ LC-70LE657U/LC-60LE657U/LC-70LE655U/LC-60LE655U/LC-80LE650U/ LC-70LE650U/LC-60LE650U/LC-70C7500U/LC-60C7500U/LC-80C6500U/ LC-70C6500U/LC-60C6500U LCD Color Television (Be sure to have this information available when you need service for your Product.)
Warranty Period for this Product:	One (1) year parts and labor from the date of purchase.
Additional Exclusions from Warranty Coverage (if any):	In order for the Product to be serviced, the Product must be readily available to the servicer, free and clear of any complex or non-standard installation, mounting or other encumbrance which would unreasonably interfere with servicing the Product. The Servicer will remount the Product after service, provided that such remounting is not into a complex or non-standard installation. Any additional labor and materials required to remove and/or reinstall a Product above and beyond the foregoing are not covered by this warranty, may result in additional charges and are the responsibility of the consumer. Image Retention resulting from a fixed image being displayed for long periods of time is not covered by this Limited Warranty (see Operation Manual on how to prevent this).
Where to Obtain Service:	From a Sharp Authorized Servicer located in the United States. To find the location of the nearest Sharp Authorized Servicer, please call Sharp toll free at 1-800-BE-SHARP.
What to do to Obtain Service:	Contact your Sharp Authorized Servicer to obtain in home service for this product. The Servicer will come to your location and if necessary remove the unit for repair at the Servicer's facility and return the set to you once completed. Be sure to have Proof of Purchase available.

TO OBTAIN PRODUCT INFORMATION OR PURCHASE ACCESSORIES AND EXTENDED WARRANTIES, CALL
1-800-BE-SHARP
OR VISIT www.sharpusa.com

SHARP®

LIMITED WARRANTY

Consumer Electronics Products

Congratulations on your purchase!

Sharp Electronics of Canada Ltd. ("Sharp") warrants to the first purchaser for this Sharp brand product ("Product"), when shipped in its original container and sold or distributed in Canada by Sharp or by an authorized Sharp dealer, and Product was not sold "as is" or "sales final" that the Product will during the applicable warranty period, be free from defects in material and workmanship, and will within the applicable warranty period, either repair the defective Product or provide the first purchaser a replacement of the defective Product.

Conditions: This limited warranty shall not apply to:
(a) Any defects caused or repairs required as a result of abusive operation, negligence, accident, improper installation or inappropriate use as outlined in the owner's manual or other applicable Product documentation.
(b) Any defects caused or repairs required as a result of any Product that has been tampered with, modified, adjusted or repaired by any person other than Sharp, a Sharp authorized service centre or a Sharp authorized servicing dealer.
(c) Any defects caused or repairs required as a result of the use of the Product with items not specified or approved by Sharp, including but not limited to, head cleaning tapes and chemical cleaning agents.
(d) Any replacement of accessories, glassware, consumable or peripheral items required through normal use of the Product, including but not limited to, earphones, remote controls, AC adapters, batteries, temperature probe, trays, filters, belts, ribbons, cables and paper.
(e) Any cosmetic damage to the Product surface or exterior that has been defaced or caused by normal wear and tear.
(f) Any defects caused or repairs required as a result of damage caused by any external or environmental conditions, including but not limited to, transmission line/power line voltage or liquid spillage or acts of God.
(g) Warranty claims for Products returned with illegible or without appropriate model, serial number and CSA/cUL markings.
(h) Any Products used for rental or commercial purposes.
(i) Any installation, delivery, setup and/or programming charges
(j) The removal and reinstallation of Over-The-Range Microwave or Microwave Drawer if it is installed in an inaccessible location or requiring removal of cupboards, handles or other cosmetic parts, or is not installed in accordance with installation instructions included with Product.

How to get service: Warranty service may be obtained upon delivery of the Product, together with proof of purchase (including date of purchase) and a copy of this limited warranty statement, to an authorized Sharp service centre or an authorized Sharp servicing dealer. In home warranty service will be carried out to locations accessible by on-road service vehicle and within 50 km of an authorized Sharp service centre on any Sharp Television with the screen size of 42" or larger and on any Over-The-Range Microwave Oven or Microwave Drawer Oven. The servicer may if necessary take the unit for repair at the servicer's facility. No other person (including any Sharp dealer or service centre) is authorized to extend, enlarge or transfer this warranty on behalf of Sharp. The purchaser will be responsible for any and all removal, reinstallation, transportation and insurance costs incurred with exception for Over-The-Range Microwave Oven or Microwave Drawer Oven whereby Sharp will be responsible for the removal and reinstallation.

The express warranties in this limited warranty are, except for consumer purchasers domiciled in Quebec, in lieu of and, except to the extent prohibited by applicable law, Sharp disclaims all other warranties and conditions, express or implied, whether arising by law, statute, by course of dealing or usage of trade, including, without limitation, implied warranties or conditions of merchantability and/or quality, fitness for a particular use or purpose, and/or non-infringement. **Limitations** (not applicable to consumer purchasers domiciled in Quebec to the extent prohibited under Quebec law): (a) Sharp shall not be liable for any incidental, special, consequential, economic, exemplary or indirect damages of any kind or nature (including lost profits or damages for loss of time or loss of use or loss of data) arising from or in any connection with the use or performance of a Product or a failure of a Product, even if Sharp is aware of or has been advised of the possibility of such damages; (b) the remedies described in this limited warranty constitute complete fulfillment of all obligations and responsibilities of Sharp to the purchaser with respect to the Product and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. Some provinces may not allow the exclusion or limitation of certain damages, or limits on the duration or voiding of implied warranties or conditions; in such provinces, the exclusions and limits herein may not apply. This limited warranty is, except for consumer purchasers domiciled in Quebec, governed by the laws of the Province in Canada in which the purchaser has purchased the Product. For consumer purchasers domiciled in Quebec this limited warranty is governed by the laws of Quebec.

WARRANTY PERIODS (calculated from the date of original purchase): Parts & Labour (exceptions noted)

Audio Product	1 year
Blu-Ray Product	1 year
Projector	1 year (lamp 90 days)
LCD/LED TV	1 year
Microwave Oven	1 year (magnetron - 4 additional years)
Air Purifier	1 year
Portable Air Conditioner	1 year
Plasmacluster Ion Generator	1 year
3D Glasses	1 year
Wireless LAN Adapter	1 year

To obtain the name and address of the nearest Authorized Sharp Service Centre or Dealer, or for more information on this Limited Warranty, Sharp Extended Warranty Offers, Sharp Canada Products or Accessory Sales, please contact Sharp:

- By writing to Sharp Electronics Of Canada Ltd. at 335 Britannia Road East Mississauga, Ontario L4Z 1W9
- Calling: at 905-568-7140
- Visiting our Web site: www.sharp.ca

TO BE THE BEST SHARP SERVICE THROUGH CUSTOMER SATISFACTION

THIS LIMITED WARRANTY IS VALID ONLY IN CANADA

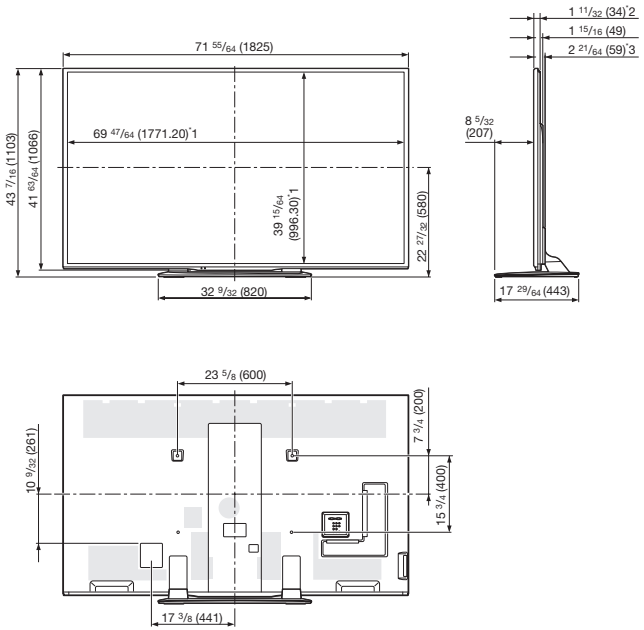
Revision: 03/01/13

LC-80LE857U_757U_657U_E.indd 60 2013/03/01 16:29:39

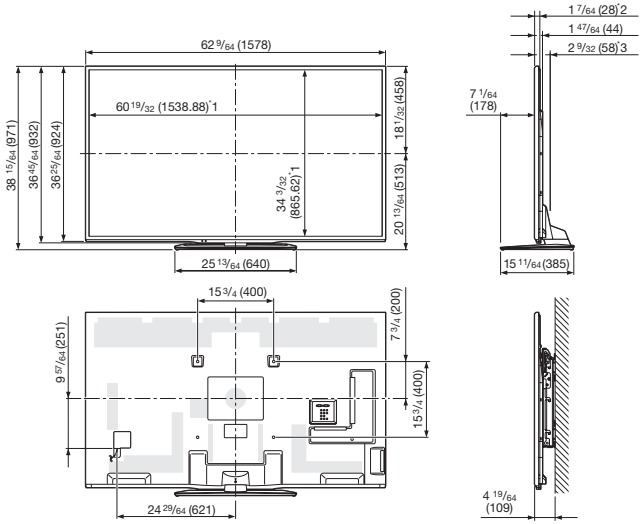
Dimensional Drawings

Unit: inch (mm)
Unité: pouce (mm)
Unidad: pulgada (mm)

LC-80LE857U



LC-70LE857U



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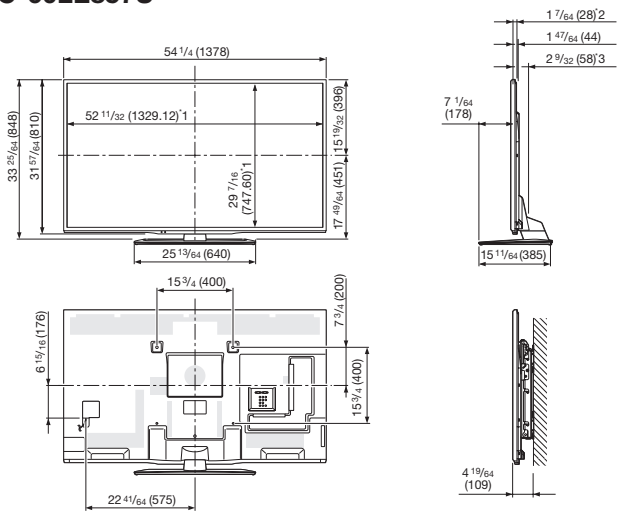
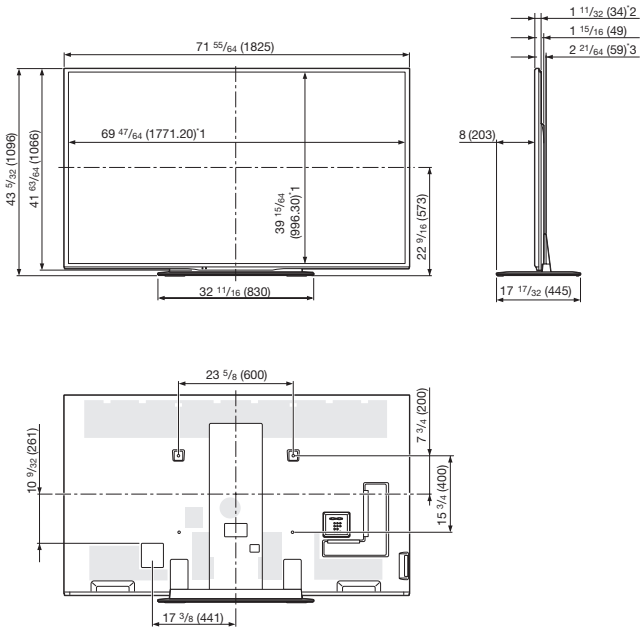


*1 Active area/Área activa/Zone active
*2 Thinnest part/Parte más delgada/Partie la plus mince
*3 Including projecting parts/Incluyendo partes salientes/Parties saillantes incluses

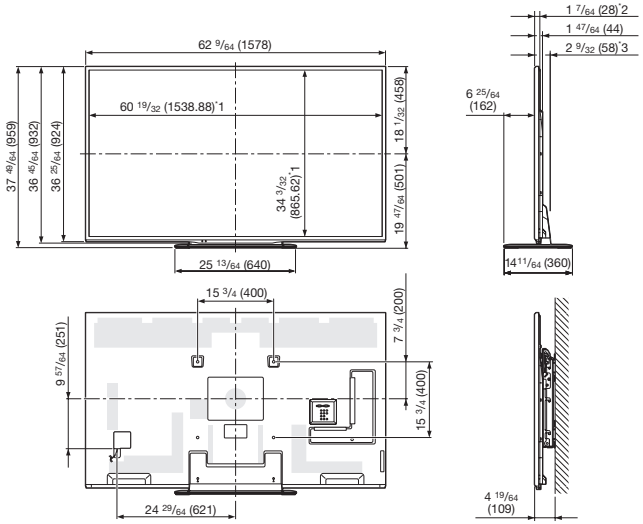
Dimensional Drawings

Unit: inch (mm)
Unité: pouce (mm)
Unidad: pulgada (mm)

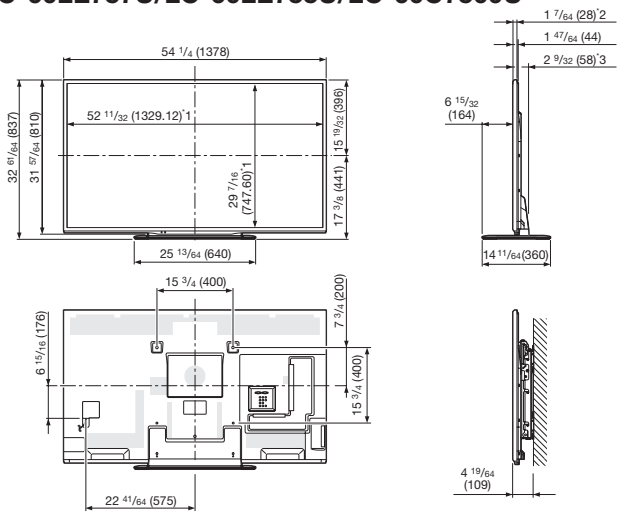
LC-80LE757U



LC-70LE757U/LC-70LE755U/LC-70C7500U



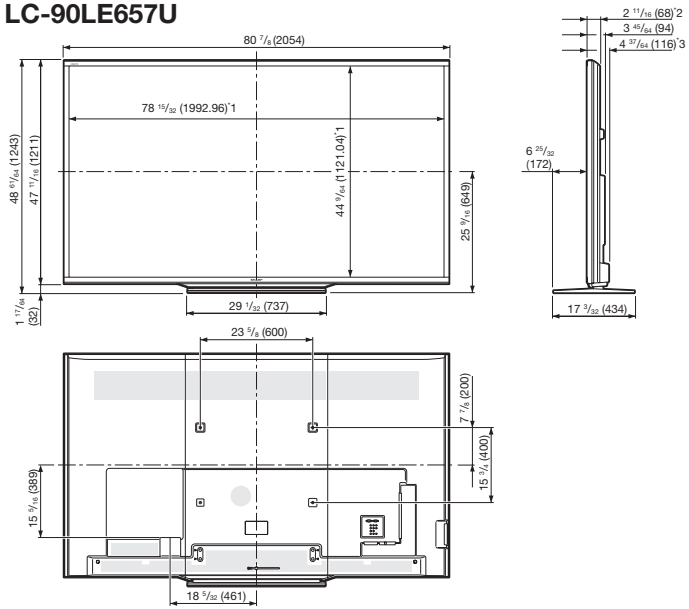
LC-60LE757U/LC-60LE755U/LC-60C7500U



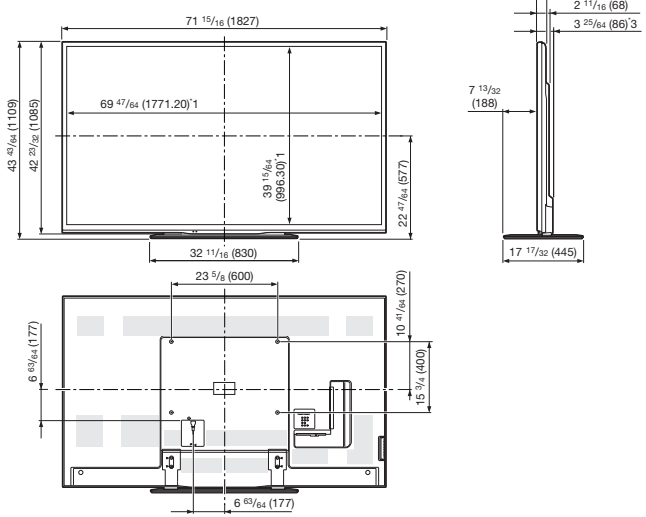
*1 Active area/Área activa/Zone active
*2 Thinnest part/Parte más delgada/Partie la plus mince
*3 Including projecting parts/Incluyendo partes salientes/Parties saillantes incluses

Dimensional Drawings

LC-90LE657U

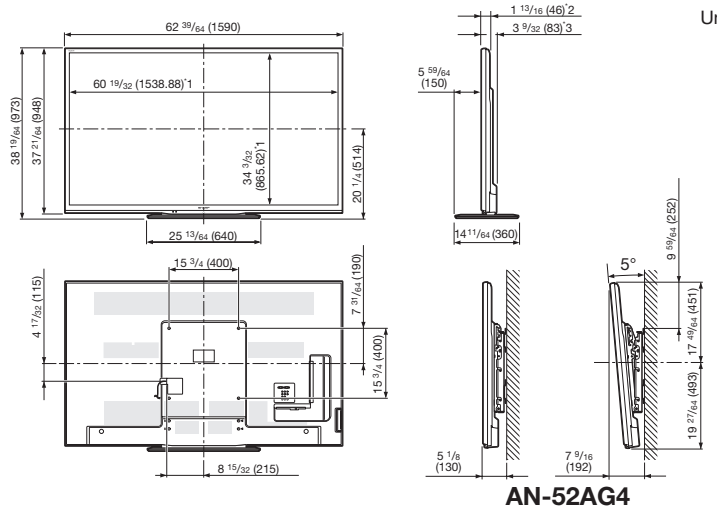


LC-80LE657U/LC-80LE650U/LC-80C6500U



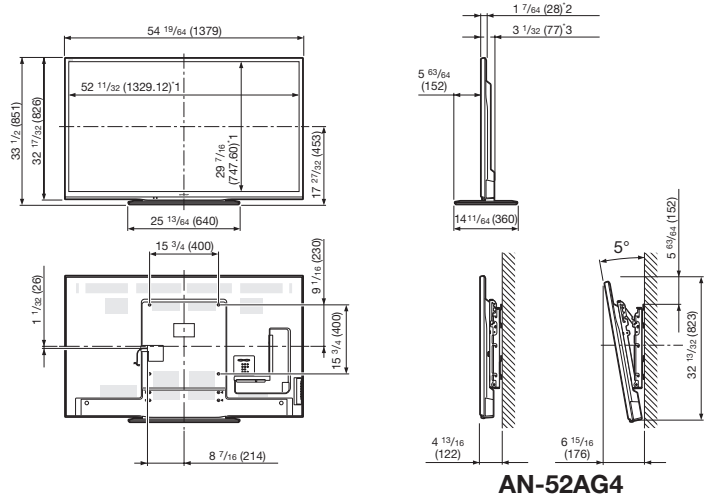
LC-70LE657U/LC-70LE655U/LC-70LE650U/LC-70C6500U

Unit: inch (mm)
Unité: pouce (mm)
Unidad: pulgada (mm)



AN-52AG4

LC-60LE657U/LC-60LE655U/LC-60LE650U/LC-60C6500U



AN-52AG4

*1 Active area/Área activa/Zone active
*2 Thinnest part/Parte más delgada/Partie la plus mince
*3 Including projecting parts/Incluyendo partes salientes/Parties saillantes incluses

OPERATION MANUAL

MODE D'EMPLOI

MANUAL DE OPERACIÓN

SHARP

SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07495-1163

SHARP CORPORATION

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